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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS	3	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS	4	Oct 09	Number of Derwent World Patents Index updates increased
NEWS	5	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS	6	Oct 22	Over 1 million reactions added to CASREACT
NEWS	7	Oct 22	DGENE GETSIM has been improved
NEWS	8	Oct 29	AAASD no longer available
NEWS	9	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS	10	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS	11	Nov 29	COPPERLIT now available on STN
NEWS	12	Nov 29	DWPI revisions to NTIS and US Provisional Numbers
NEWS	13	Nov 30	Files VETU and VETB to have open access
NEWS	14	Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS	15	Dec 10	DGENE BLAST Homology Search
NEWS	16	Dec 17	WELDASEARCH now available on STN
NEWS	17	Dec 17	STANDARDS now available on STN
NEWS	18	Dec 17	New fields for DPCI
NEWS	19	Dec 19	CAS Roles modified
NEWS	20	Dec 19	1907-1946 data and page images added to CA and Caplus
NEWS EXPRESS			August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:49:01 ON 23 JAN 2002

=> fil reg  
COST IN U.S. DOLLARS  
  
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SINCE FILE ENTRY	TOTAL SESSION
0.15	0.15

FILE 'REGISTRY' ENTERED AT 14:49:11 ON 23 JAN 2002  
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STRUCTURE FILE UPDATES: 20 JAN 2002 HIGHEST RN 385365-97-9  
DICTIONARY FILE UPDATES: 22 JAN 2002 HIGHEST RN 385365-97-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>  
Uploading C:\STNEXP4\QUERIES\09688756.str

L1 STRUCTURE UPLOADED

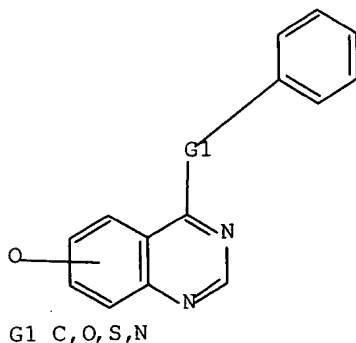
=> que L1

L2 QUE L1

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s ll ful  
FULL SEARCH INITIATED 14:50:01 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 10751 TO ITERATE

100.0% PROCESSED 10751 ITERATIONS 4195 ANSWERS  
SEARCH TIME: 00.00.03

L3 4195 SEA SSS FUL L1

=> fil caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	140.54	140.69

FILE 'CAPLUS' ENTERED AT 14:50:09 ON 23 JAN 2002  
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FILE COVERS 1907 - 23 Jan 2002 VOL 136 ISS 4  
FILE LAST UPDATED: 21 Jan 2002 (20020121/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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=> s 1

L4 1191046 L

=> s 13

L5 269 L3

=> e inflammation/ct

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	0	1	INFLAMMABLE/CT
E2	0	2	INFLAMMABLE SUBSTANCES/CT
E3	19483	5 -->	INFLAMMATION/CT
E4	0	3	INFLAMMATION (L) ACUTE/CT
E5	0	3	INFLAMMATION (L) ALLERGIC/CT
E6	0	4	INFLAMMATION (L) CELLULITIS/CT
E7	0	3	INFLAMMATION (L) CHRONIC/CT
E8	0	3	INFLAMMATION (L) EMPYEMA/CT
E9	0	4	INFLAMMATION (L) GRANULOMATOUS/CT
E10	0	3	INFLAMMATION (L) INFLAMMATORY EDEMA/CT
E11	0	4	INFLAMMATION (L) LAMINITIS/CT
E12	0	3	INFLAMMATION (L) NEUROGENIC/CT

=> e e3+all

E1 19483 --> Inflammation/CT  
HN Valid heading during volume 66 (1967) to present.  
NOTE For inflammation of specific anatomical parts, see

the

specific anatomical part heading.

E2	19	NT1	Empyema/CT
E3	45	NT1	Laminitis/CT
E4		RTCS	Cyclooxygenase 1/CT
E5		RTCS	Cyclooxygenase 2/CT

\*\*\*\*\*END\*\*\*

=> s inflammat?

L6 132520 INFLAMMAT?

=> s empyema or laminitis or cyclooxygenase

	185	EMPYEMA
	119	LAMINITIS
	14941	CYCLOOXYGENASE
L7	15243	EMPYEMA OR LAMINITIS OR CYCLOOXYGENASE

=> s 16 or 17

L8 143431 L6 OR L7

=> e prostaglandin/ct

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	0	2	PROSTACYCLINS/CT
E2	0	2	PROSTACYCLINS PROSTAGLANDINS/CT
E3	0	1 -->	PROSTAGLANDIN/CT
E4	0	6	PROSTAGLANDIN A1/CT
E5	0	6	PROSTAGLANDIN A2/CT
E6	0	2	PROSTAGLANDIN ANTAGONISTS/CT

E7	1	2	PROSTAGLANDIN B/CT
E8	0	2	PROSTAGLANDIN CYCLOOXYGENASE-INHIBITING MOL.

STRUCTURE

			-BIOL. ACTIVITY RELATIONSHIP/CT
E9	0	2	PROSTAGLANDIN D RECEPTORS/CT
E10	0	15	PROSTAGLANDIN D2/CT
E11	0	2	PROSTAGLANDIN DP RECEPTORS/CT
E12	40	2	PROSTAGLANDIN E/CT

=> e e12+all

E1	40	-->	Prostaglandin E/CT
E2		USE	Prostaglandins (L) E/CT

\*\*\*\*\*END\*\*\*

=> s prostaglandin E or prostaglandins (L) E

	59269	PROSTAGLANDIN
	1581561	E
	2525	PROSTAGLANDIN E
		(PROSTAGLANDIN(W)E)
	38732	PROSTAGLANDINS
	1581561	E
	4226	PROSTAGLANDINS (L) E
L9	5238	PROSTAGLANDIN E OR PROSTAGLANDINS (L) E

=> e ultraviolet light/ct

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	0	2	ULTRAVIOLET LAMPS/CT
E2	0	2	ULTRAVIOLET LASERS/CT
E3	3273	2 -->	ULTRAVIOLET LIGHT/CT
E4	0	2	ULTRAVIOLET LIGHT STABILIZERS/CT
E5	1		ULTRAVIOLET LIGHT, BIOLOGICAL EFFECT/CT
E6	1557		ULTRAVIOLET LIGHT, BIOLOGICAL EFFECTS/CT
E7	1184		ULTRAVIOLET LIGHT, CHEMICAL AND PHYSICAL EFFECTS/CT
E8	2		ULTRAVIOLET LIGHT, CHEMICAL EFFECTS/CT
E9	0	2	ULTRAVIOLET MIRRORS/CT
E10	0	2	ULTRAVIOLET PHOTOELECTRON SPECTROSCOPY/CT
E11	0	2	ULTRAVIOLET PHOTOEMISSION/CT
E12	1		ULTRAVIOLET RAADIATION/CT

=> e e12+all

E1		-->	Ultraviolet radiation (L) solar/CT
E2	419	NEW	Solar UV radiation/CT

\*\*\*\*\*END\*\*\*

=> e ultraviolet radiation/ct

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	1		ULTRAVIOLET RAADIATION/CT
E2	1		ULTRAVIOLET RAADIATION, BIOLOGICAL EFFECTS/CT
E3	17915	2 -->	ULTRAVIOLET RADIATION/CT
E4	0	2	ULTRAVIOLET RADIATION (L) A/CT
E5	0	3	ULTRAVIOLET RADIATION (L) AB/CT
E6	0	2	ULTRAVIOLET RADIATION (L) B/CT
E7	0	2	ULTRAVIOLET RADIATION (L) C/CT

E8	0	2	ULTRAVIOLET RADIATION (L) FAR-/CT
E9	0	2	ULTRAVIOLET RADIATION (L) NEAR-/CT
E10	0	2	ULTRAVIOLET RADIATION (L) SOLAR/CT
E11	0	3	ULTRAVIOLET RADIATION (L) SOLAR, B/CT
E12	0	2	ULTRAVIOLET RADIATION (L) VACUUM-/CT

=> e e3+all

E1	17915	-->	Ultraviolet radiation/CT
		HN	Valid heading during volumes 86-125 (1977-1996) only.
E2	7585	NEW	UV radiation/CT

\*\*\*\*\*END\*\*\*

=> e ultraviolet radiation B/ct

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	0	3	ULTRAVIOLET RADIATION (L) SOLAR, B/CT
E2	0	2	ULTRAVIOLET RADIATION (L) VACUUM-/CT
E3	0	-->	ULTRAVIOLET RADIATION B/CT
E4	0	2	ULTRAVIOLET RADIATION DETECTORS/CT
E5	7856		ULTRAVIOLET RADIATION, BIOLOGICAL EFFECTS/CT
E6	3025		ULTRAVIOLET RADIATION, CHEMICAL AND PHYSICAL EFFECTS/C
		T	
E7	435	2	ULTRAVIOLET SOURCES/CT
E8	0	2	ULTRAVIOLET SOURCES (L) VACUUM-/CT
E9	2	2	ULTRAVIOLET SPECTRA/CT
E10	0	2	ULTRAVIOLET SPECTROSCOPY/CT
E11	0	1	ULTRAWEAK/CT
E12	0	2	ULTRAWEAK BIOLUMINESCENCE/CT

=> e UV radiation B/ct

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	0	13	UV RADIATION (L) NEAR-UV/CT
E2	0	10	UV RADIATION (L) SYNCHROTRON/CT
E3	0	-->	UV RADIATION B/CT
E4	0	2	UV RADIATION DETECTORS/CT
E5	0	2	UV RADIATION SOURCES/CT
E6	0	2	UV RADIOMETERS/CT
E7	0	3	UV REFLECTANCE SPECTROSCOPY/CT
E8	0	2	UV REFLECTION/CT
E9	0	3	UV REFLECTION SPECTRA/CT
E10	0	3	UV REFLECTION SPECTROMETRY/CT
E11	0	2	UV RESONANCE RAMAN SPECTRA/CT
E12	0	2	UV RESONANCE RAMAN SPECTROSCOPY/CT

=> s ultraviolet radiation or uv radiation

	170314	ULTRAVIOLET
	559660	RADIATION
	22224	ULTRAVIOLET RADIATION
		(ULTRAVIOLET(W)RADIATION)
	358364	UV
	559660	RADIATION
	29576	UV RADIATION
		(UV(W)RADIATION)
L10	43935	ULTRAVIOLET RADIATION OR UV RADIATION

=> d his

(FILE 'HOME' ENTERED AT 14:49:01 ON 23 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:49:11 ON 23 JAN 2002

L1 STRUCTURE UPLOADED

L2 QUE L1

L3 4195 S L1 FUL

FILE 'CAPLUS' ENTERED AT 14:50:09 ON 23 JAN 2002

L4 1191046 S L

L5 269 S L3

E UVB RADIATION

E UVB RADIATION/CT

E UVB

E E3+ALL

E UVB/CT

E ULTRAVIOLET B RADIATION/CT

E UVB LIGHT/CT

E INFLAMMATION

E E3+ALL

E INFLAMMATION/CT

E E3+ALL

L6 132520 S INFLAMMAT?

L7 15243 S EMPYEMA OR LAMINITIS OR CYCLOOXYGENASE

L8 143431 S L6 OR L7

E PROSTAGLANDIN E2

E PROSTAGLANDIN E2/CT

E PROSTAGLANDIN/CT

E PROSTAGLANDIN/CT

E E12+ALL

L9 5238 S PROSTAGLANDIN E OR PROSTAGLANDINS (L) E

E ULTRAVIOLET LIGHT

E ULTRAVIOLET LIGHT/CT

E E12+AA

E E12+ALL

E ULTRAVIOLET RADIATION/CT

E E3+ALL

E ULTRAVIOLET RADIATION B/CT

E UV RADIATION B/CT

L10 43935 S ULTRAVIOLET RADIATION OR UV RADIATION

=> 15 and 18

L5 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s 15 and 18

L11 11 L5 AND L8

=> s 15 and 110

L12 2 L5 AND L10

=> s 15 and 18

L13 11 L5 AND L8

=> s 15 and 19

L14 0 L5 AND L9

=> s 111 and 112

L15 0 L11 AND L12

=> s 111 or 112

L16 13 L11 OR L12

=> d ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM 13 ANSWERS - CONTINUE? Y/(N):y

☒ 16 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:10244 CAPLUS

TITLE: Use of EGF-R protein tyrosine kinase inhibitors for preventing photoaging in human skin

INVENTOR(S): Voorhees, John J.; Fisher, Gary J.

PATENT ASSIGNEE(S): Regents of the University of Michigan, USA

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	----	-----	-----
WO 2002000183	A2	20020103	WO 2001-US41154	20010626
W:	AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, SG, SI, SK, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2000-213940 P 20000626

AB Photoaging of human skin, such as evidenced by the increased presence of matrix metalloproteinases after exposure to **UV radiation**, is prevented by pre-treating the skin with an inhibitor of epidermal growth factor receptor (EGF-R) prior to exposure. Such inhibitors are preferably natural, an example of which is genistein. Compns. used for such purposes preferably include an EGF-R inhibitor as well as another

MMP inhibitor, such as a retinoid.

IT **153436-54-5**, PD 153035

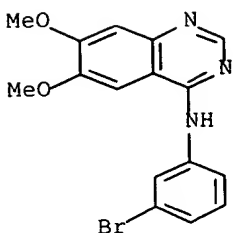
RL: COS (Cosmetic use); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of epidermal growth factor receptor protein tyrosine kinase inhibitors for preventing photoaging in human skin by preventing induction of matrix metalloproteinases and combination with other agents such as retinoids)

RN 153436-54-5 CAPLUS

CN 4-Quinazolinamine, N-(3-bromophenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)





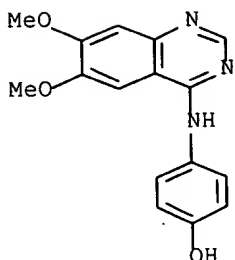
~~176~~ ANSWER 2 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2001:545523 CAPLUS  
 DOCUMENT NUMBER: 135:132432  
 TITLE: JAK/STAT pathway inhibitors and the uses thereof  
 INVENTOR(S): Vasios, George  
 PATENT ASSIGNEE(S): Genzyme Corporation, USA  
 SOURCE: PCT Int. Appl., 55 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001052892	A2	20010726	WO 2001-US2033	20010122
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2000-177872	P 20000124
			US 2000-723490	A 20001128

AB The role of JAK/STAT (Janus Kinase/Signal Transducers and Activators of Transcription) signal transduction pathway cellular mechanisms that lead to the onset and progression of degenerative joint diseases or disorders such as osteoarthritis (OA) is disclosed. Certain known effective OA therapeutics such as hymenialdisine, debromohymenialdisine, and its variants and derivs. are shown to function as JAK3-specific inhibitors, which downregulate steady state mRNA levels of key cellular components involved in cartilage degrdn. Another JAK3-specific inhibitor, not previously known as an OA therapeutic, is shown to downregulate steady state mRNA levels of various cellular components involved in cartilage degrdn. in a manner identical to that of the known OA therapeutics.

IT **202475-60-3**, WHI-P131  
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (aJAK/STAT pathway inhibitors for treatment of osteoarthritis)

RN **202475-60-3** CAPLUS  
 CN Phenol, 4-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA INDEX NAME)



~~LI~~ ANSWER 3 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:380344 CAPLUS

DOCUMENT NUMBER: 134:361373

TITLE: Protein kinase inhibitors and other agents for the treatment of Helicobacter pylori-induced gastrointestinal diseases

INVENTOR(S): Wallasch, Christian; Bevec, Dorian

PATENT ASSIGNEE(S): Axxima Pharmaceuticals A.-G., Germany

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001035899	A2	20010525	WO 2000-EP11444	20001117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001030037	A5	20010530	AU 2001-30037	20001117
PRIORITY APPLN. INFO.:			EP 1999-123042	A 19991119
			US 1999-448013	A 19991123
			WO 2000-EP11444	W 20001117

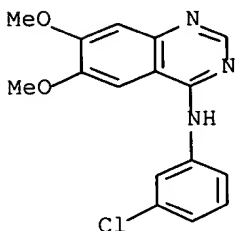
AB A method is disclosed for the manuf. of a medicament for treating or preventing Helicobacter mediated diseases in a mammal and a method for treating or preventing Helicobacter-mediated diseases. The compds. of the

invention include CCK-B inhibitors, protein kinase C inhibitors, membrane-assocd. metalloproteinase inhibitors, growth factor receptor activation inhibitors, growth factor receptor kinase inhibitors, mitogen-activated protein kinase cascade inhibitors, and transcription inhibitors.

IT 153436-53-4, Tyrphostin AG 1478

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Tyrphostin AG 1478; protein kinase inhibitors and other agents for treatment of Helicobacter pylori-induced gastrointestinal disease)  
 RN 153436-53-4 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chlorophenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



116 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:666715 CAPLUS

DOCUMENT NUMBER: 133:252449

TITLE: Quinazolines and other bicyclic heterocycles, pharmaceutical compositions containing these

compounds

as tyrosine kinase inhibitors, and processes for preparing them

INVENTOR(S):

Himmelsbach, Frank; Langkopf, Elke; Blech, Stefan; Jung, Birgit; Metz, Thomas; Solca, Flavio

PATENT ASSIGNEE(S):

Boehringer Ingelheim Pharma K.-G., Germany

SOURCE:

PCT Int. Appl., 153 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

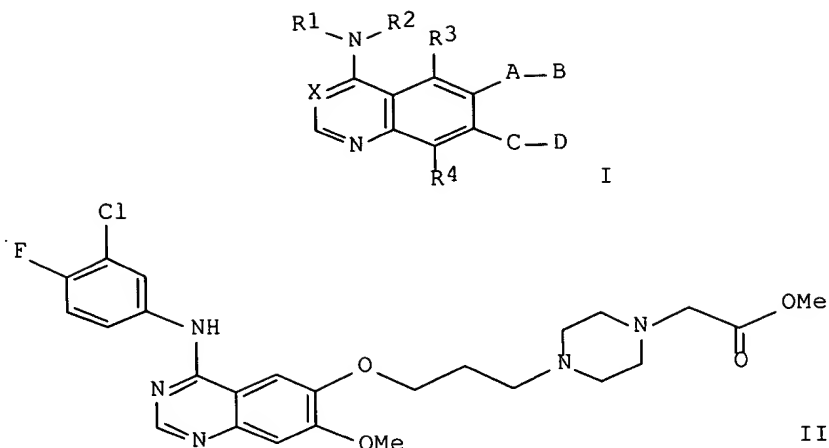
English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

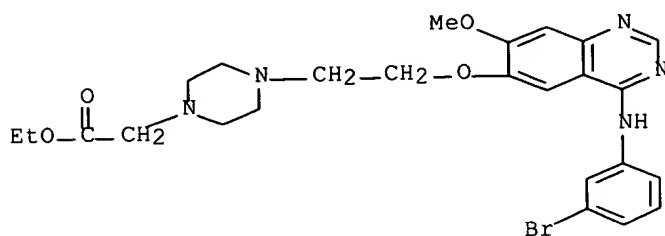
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000055141	A1	20000921	WO 2000-EP2228	20000314
W:		AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
DE 19911509	A1	20000921	DE 1999-19911509	19990315
EP 1163227	A1	20011219	EP 2000-909360	20000314
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
NO 2001004487	A	20010914	NO 2001-4487	20010914
PRIORITY APPLN. INFO.:			DE 1999-19911509 A	19990315
			WO 2000-EP2228 W	20000314
OTHER SOURCE(S):		MARPAT 133:252449		

GI



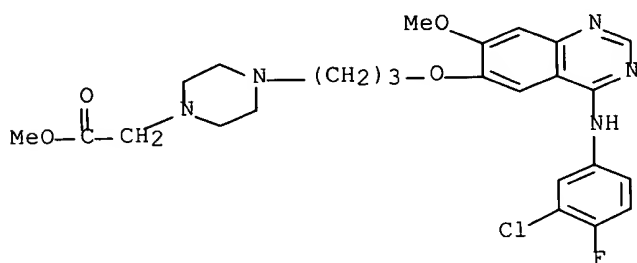
- AB The invention relates to bicyclic heterocyclic compds. I [R1 = H, alkyl; R2 = (un)substituted Ph, CH2Ph, or CH(Me)Ph; R3, R4 = H, F, Cl, OMe, or Me optionally substituted by OMe, NMe2, NEt2, pyrrolidino, piperidino, or morpholino; X = N or C(CN); A = O, NH, (un)substituted alkylene, O-alkylene, NH-alkylene, O-cycloalkylene, etc.; B = (un)substituted amine-contg. sidechain, piperazino, alkyleneimino, morpholino, etc.; or
- AB = H, F, Cl, alkoxy, amino, etc.; C = groups similar to A; D = groups similar to B; with a variety of provisos] and their tautomers, stereoisomers, and salts, and particularly their physiol. acceptable salts
- with inorg. or org. acids or bases. The compds. have valuable pharmacol. properties, particularly an inhibitory effect on signal transduction mediated by tyrosine kinases, and are useful in treating diseases, particularly tumor diseases, and diseases of the lung and airways. Over 20 compds. were prepd., and over 200 are listed. For instance, alkylation of 4-(3-chloro-4-fluorophenylamino)-6-[3-(1-piperazinyl)propyloxy]-7-methoxyquinazoline (prepn. given) by Me bromoacetate gave 51% title compd.
- II. The latter compd. inhibited EGF-dependent proliferation of F/L-HERc cells in vitro, with an IC50 of 46 nM.
- IT **295330-22-2P**, 4-[(3-Bromophenyl)amino]-6-[2-[4-[(ethoxycarbonyl)methyl]piperazin-1-yl]ethoxy]-7-methoxyquinazoline
- RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
- SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (drug candidate; prepn. of quinazoline derivs. and other bicyclic heterocycles as tyrosine kinase inhibitors)
- RN 295330-22-2 CAPLUS

CN 1-Piperazineacetic acid, 4-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)

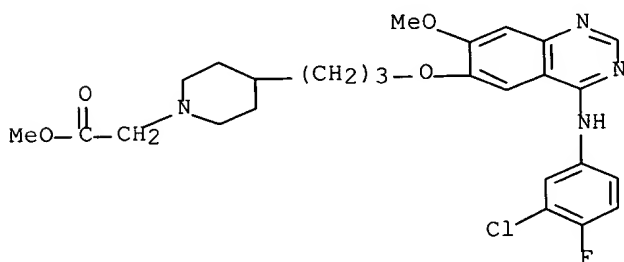


IT 295330-12-0P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-[4-(methoxycarbonylmethyl)-1-piperazinyl]propyloxy]-7-methoxyquinazoline  
 295330-13-1P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-[1-(methoxycarbonylmethyl)-4-piperidinyl]propyloxy]-7-methoxyquinazoline  
 295330-14-2P, (S)-4-[(3-Bromophenyl)amino]-6-[1-[(ethoxycarbonyl)methyl]pyrrolidin-2-yl]methoxy]-7-methoxyquinazoline  
 295330-15-3P, (R)-4-[(3-Bromophenyl)amino]-6-[1-[(ethoxycarbonyl)methyl]pyrrolidin-2-yl]methoxy]-7-methoxyquinazoline  
 295330-16-4P, (S)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[1-[(methoxycarbonyl)methyl]pyrrolidin-2-yl]methoxy]-7-cyclopentyloxyquinazoline 295330-17-5P, (S)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[1-[(methoxycarbonyl)methyl]pyrrolidin-2-yl]methoxy]-7-cyclopentylmethoxyquinazoline 295330-18-6P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-[N-(ethoxycarbonylmethyl)-N-methylamino]propyloxy]-7-methoxyquinazoline 295330-19-7P, (S)-4-[(3-Bromophenyl)amino]-6-[3-(2-methoxycarbonylpyrrolidin-1-yl)propyloxy]-7-methoxyquinazoline 295330-20-0P, (R)-4-[(3-Bromophenyl)amino]-6-[3-(2-methoxycarbonylpyrrolidin-1-yl)propyloxy]-7-methoxyquinazoline 295330-23-3P, 4-[(3-Bromophenyl)amino]-6-[2-[N-(ethoxycarbonyl)methyl]-N-methylamino]ethoxy]-7-methoxyquinazoline 295330-24-4P, 4-[(3-Bromophenyl)amino]-6-[2-[N,N-bis[(ethoxycarbonyl)methyl]amino]ethoxy]-7-methoxyquinazoline 295330-25-5P, 4-[(3-Bromophenyl)amino]-6-[2-[4-[1,2-bis(methoxycarbonyl)ethyl]piperazin-1-yl]ethoxy]-7-methoxyquinazoline 295330-26-6P, 4-[(3-Bromophenyl)amino]-6-[2-[4-[1-[(methoxycarbonyl)methyl]-2-(methoxycarbonyl)ethyl]piperazin-1-yl]ethoxy]-7-methoxyquinazoline 295330-27-7P, (R)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[2-[2-(methoxycarbonyl)pyrrolidin-1-yl]ethoxy]-7-cyclopentyloxyquinazoline 295330-28-8P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-[2-[4-[(ethoxycarbonyl)methyl]piperazin-1-yl]ethoxy]-7-cyclopentyloxyquinazoline 295330-29-9P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-cyclopentyloxy-7-[2-[N-(2-hydroxy-2-methylprop-1-yl)-N-[(ethoxycarbonyl)methyl]amino]ethoxy]quinazoline 295330-30-2P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-cyclopentyloxy-7-[2-(6,6-dimethyl-2-oxomorpholin-4-yl)ethoxy]quinazoline 295330-31-3P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-cyclopentyloxy-7-[2-[N-(2-oxotetrahydrofuran-3-yl)-N-methylamino]ethoxy]quinazoline 295330-32-4P, 4-[(3-Bromophenyl)amino]-6-[2-(6,6-dimethyl-2-

oxomorpholin-4-yl)ethoxy]-7-methoxyquinazoline **295330-34-6P**,  
 4-[(3-Bromophenyl)amino]-6-[2-[N-(2-oxotetrahydrofuran-4-yl)-N-methylamino]ethoxy]-7-methoxyquinazoline **295330-36-8P**,  
 4-[(3-Bromophenyl)amino]-6-[3-[4-[(ethoxycarbonyl)methyl]piperazin-1-yl]-2-hydroxypropyloxy]-7-methoxyquinazoline **295330-37-9P**,  
 4-[(3-Bromophenyl)amino]-6-[2-[4-(carboxymethyl)piperazin-1-yl]ethoxy]-7-methoxyquinazoline  
 RL: BAC (Biological activity or effector, except adverse); SPN  
 (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (drug candidate; prepn. of quinazoline derivs. and other bicyclic  
 heterocycles as tyrosine kinase inhibitors)  
 RN 295330-12-0 CAPLUS  
 CN 1-Piperazineacetic acid, 4-[3-[[4-[(3-chloro-4-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-, methyl ester (9CI) (CA INDEX NAME)

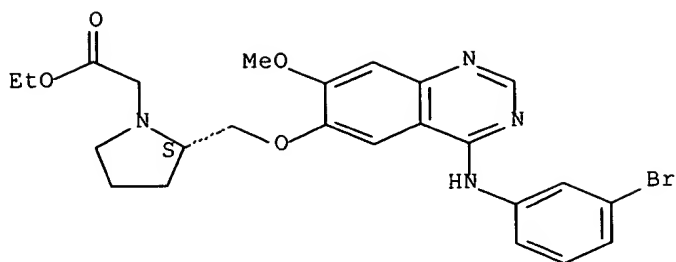


RN 295330-13-1 CAPLUS  
 CN 1-Piperidineacetic acid, 4-[3-[[4-[(3-chloro-4-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 295330-14-2 CAPLUS  
 CN 1-Pyrrolidineacetic acid, 2-[[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]methyl]-, ethyl ester, (2S)- (9CI) (CA INDEX NAME)

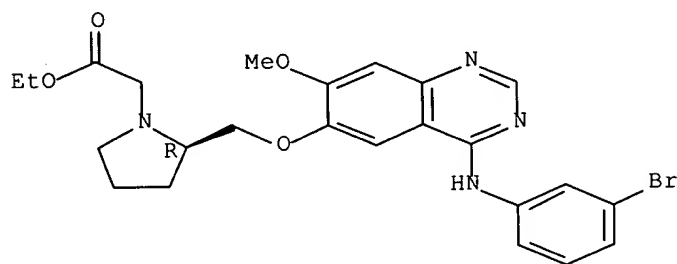
Absolute stereochemistry.



RN 295330-15-3 CAPLUS

CN 1-Pyrrolidineacetic acid, 2-[[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]methyl]-, ethyl ester, (2R)- (9CI) (CA INDEX NAME)

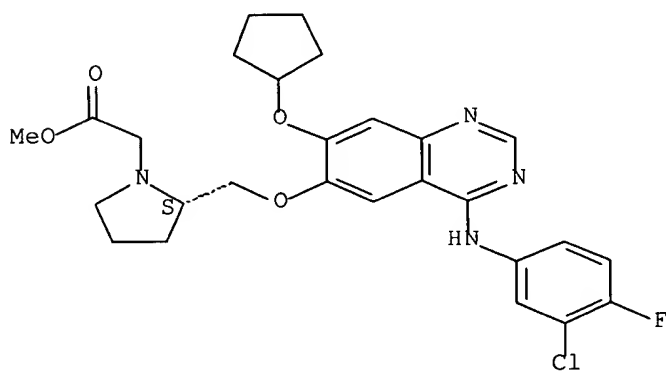
Absolute stereochemistry.



RN 295330-16-4 CAPLUS

CN 1-Pyrrolidineacetic acid, 2-[[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentylmethoxy)-6-quinazolinyl]oxy]methyl]-, methyl ester, (2S)- (9CI) (CA INDEX NAME)

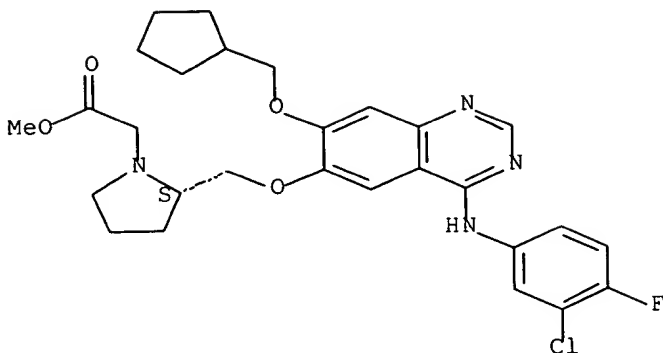
Absolute stereochemistry.



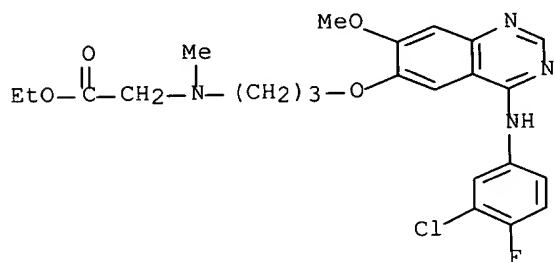
RN 295330-17-5 CAPLUS

CN 1-Pyrrolidineacetic acid, 2-[[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentylmethoxy)-6-quinazolinyl]oxy]methyl]-, methyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

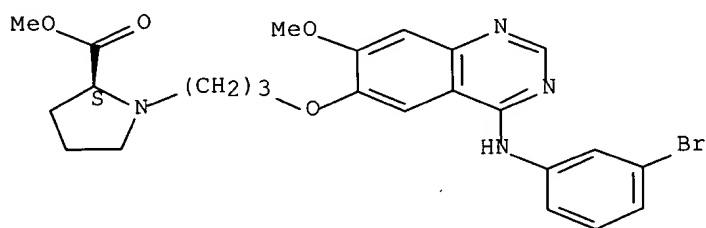


RN 295330-18-6 CAPLUS  
 CN Glycine, N-[3-[[4-[(3-chloro-4-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-N-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 295330-19-7 CAPLUS  
 CN L-Proline, 1-[3-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-, methyl ester (9CI) (CA INDEX NAME)

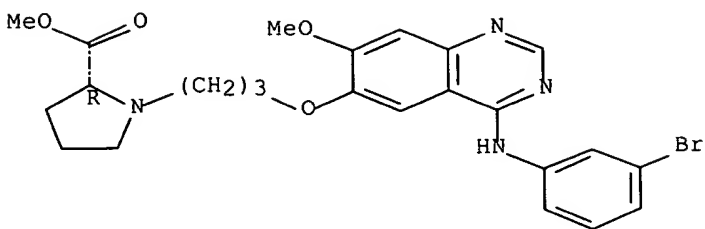
Absolute stereochemistry.



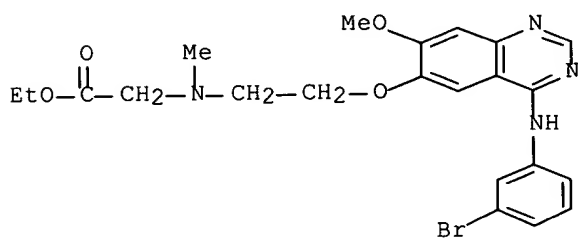
RN 295330-20-0 CAPLUS  
 CN D-Proline, 1-[3-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

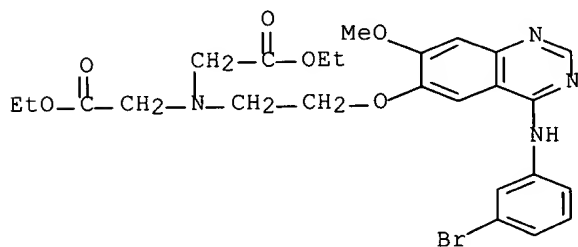




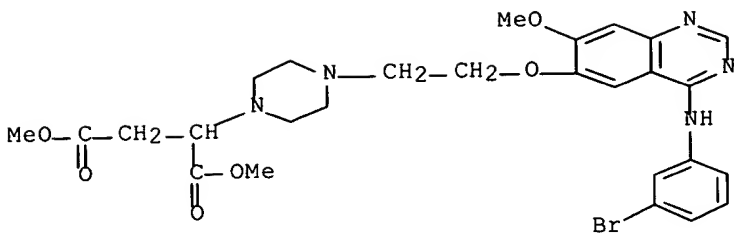
RN 295330-23-3 CAPLUS  
 CN Glycine, N-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]-N-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 295330-24-4 CAPLUS  
 CN Glycine, N-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]-N-(2-ethoxy-2-oxoethyl)-, ethyl ester (9CI) (CA INDEX NAME)

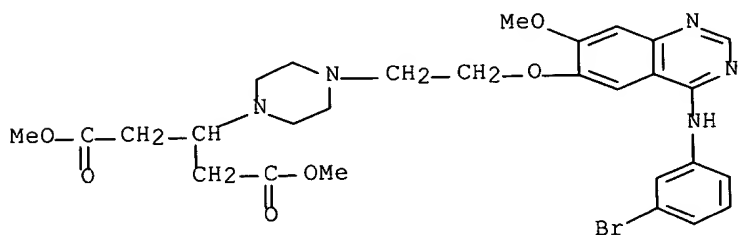


RN 295330-25-5 CAPLUS  
 CN Butanedioic acid, [4-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]-1-piperazinyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 295330-26-6 CAPLUS

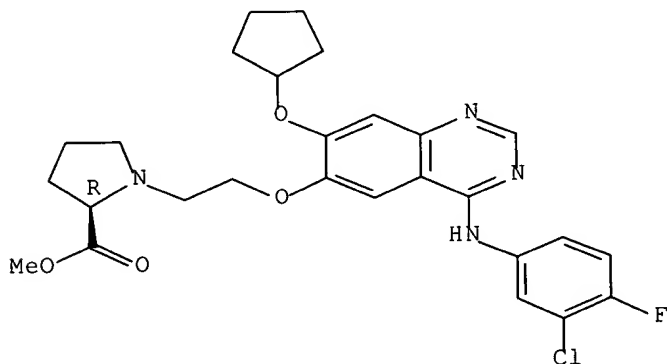
CN Pentanedioic acid, 3-[4-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]-1-piperazinyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 295330-27-7 CAPLUS

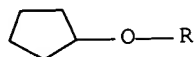
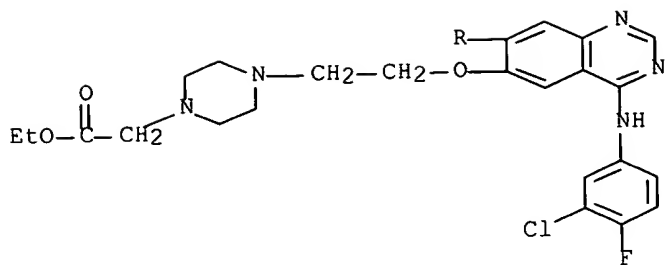
CN D-Proline, 1-[2-[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentyloxy)-6-quinazolinyl]oxy]ethyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

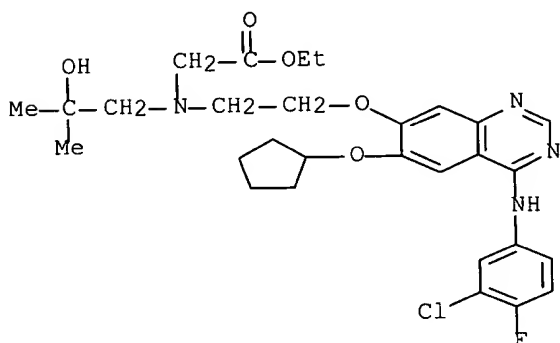


RN 295330-28-8 CAPLUS

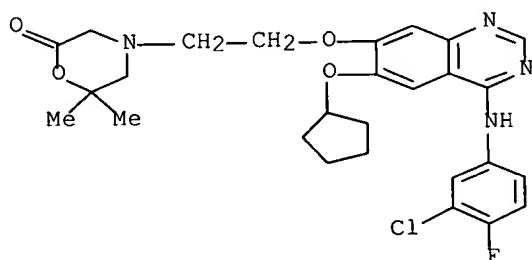
CN 1-Piperazineacetic acid, 4-[2-[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentyloxy)-6-quinazolinyl]oxy]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 295330-29-9 CAPLUS  
 CN Glycine, N-[2-[[4-[(3-chloro-4-fluorophenyl)amino]-6-(cyclopentyloxy)-7-quinazolinyl]oxy]ethyl]-N-(2-hydroxy-2-methylpropyl)-, ethyl ester (9CI)  
 (CA INDEX NAME)

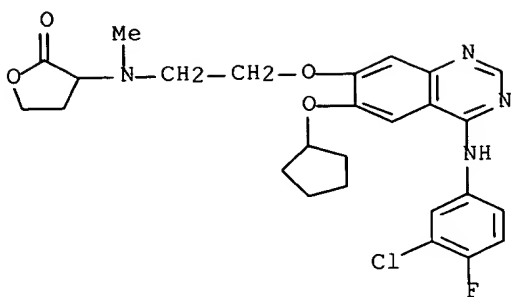


RN 295330-30-2 CAPLUS  
 CN 2-Morpholinone, 4-[2-[[4-[(3-chloro-4-fluorophenyl)amino]-6-(cyclopentyloxy)-7-quinazolinyl]oxy]ethyl]-6,6-dimethyl- (9CI) (CA  
 INDEX  
 NAME)

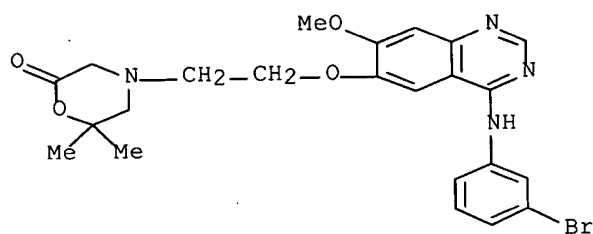


RN 295330-31-3 CAPLUS  
 CN 2(3H)-Furanone, 3-[[2-[[4-[(3-chloro-4-fluorophenyl)amino]-6-(cyclopentyloxy)-7-quinazolinyl]oxy]ethyl]methylamino]dihydro- (9CI)

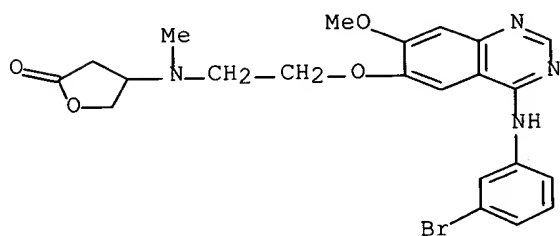
(CA  
INDEX NAME)



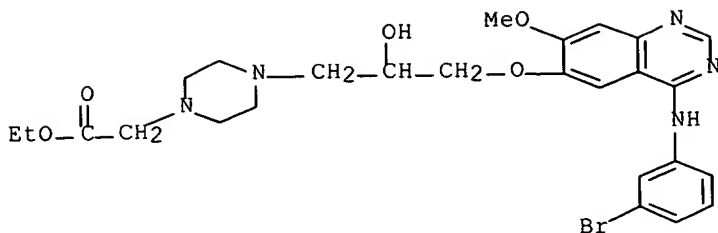
RN 295330-32-4 CAPLUS  
CN 2-Morpholinone, 4-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]-6,6-dimethyl- (9CI) (CA INDEX NAME)



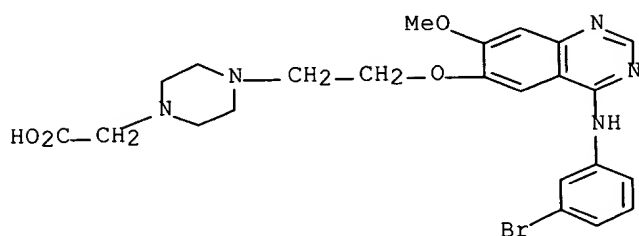
RN 295330-34-6 CAPLUS  
CN 2(3H)-Furanone, 4-[[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]methylamino]dihydro- (9CI) (CA INDEX NAME)



RN 295330-36-8 CAPLUS  
CN 1-Piperazineacetic acid, 4-[3-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]-2-hydroxypropyl]-, ethyl ester (9CI) (CA INDEX NAME)



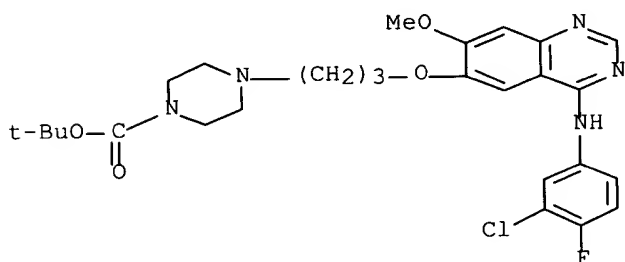
RN 295330-37-9 CAPLUS  
 CN 1-Piperazineacetic acid, 4-[2-[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]ethyl]- (9CI) (CA INDEX NAME)



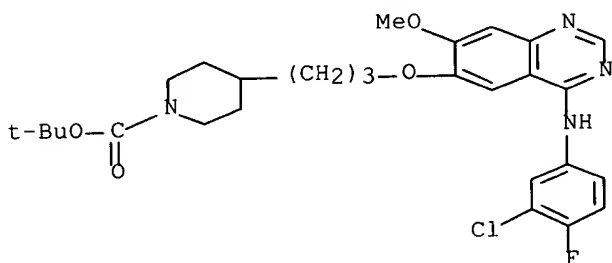
IT 295330-38-0P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-(4-tert-butylloxycarbonylpiperazino)propyloxy]-7-methoxyquinazoline  
 295330-39-1P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-(1-tert-butylloxycarbonyl-4-piperidinyl)propyloxy]-7-methoxyquinazoline  
 295330-40-4P, (S)-4-[(3-Bromophenyl)amino]-6-[[1-(tert-butylloxycarbonyl)pyrrolidin-2-yl]methoxy]-7-methoxyquinazoline  
 295330-41-5P, (R)-4-[(3-Bromophenyl)amino]-6-[[1-(tert-butylloxycarbonyl)pyrrolidin-2-yl]methoxy]-7-methoxyquinazoline  
 295330-42-6P, (S)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[[1-(tert-butylloxycarbonyl)pyrrolidin-2-yl]methoxy]-7-cyclopentyloxyquinazoline  
 295330-43-7P, (S)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[[1-(tert-butylloxycarbonyl)pyrrolidin-2-yl]methoxy]-7-cyclopentylmethoxyquinazoline  
 295330-45-9P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-(1-piperazinyl)propyloxy]-7-methoxyquinazoline 295330-46-0P, 4-(3-Chloro-4-fluorophenylamino)-6-[3-(4-piperidinyl)propyloxy]-7-methoxyquinazoline 295330-47-1P, (S)-4-[(3-Bromophenyl)amino]-6-[(pyrrolidin-2-yl)methoxy]-7-methoxyquinazoline 295330-48-2P, (R)-4-[(3-Bromophenyl)amino]-6-[(pyrrolidin-2-yl)methoxy]-7-methoxyquinazoline 295330-49-3P, (S)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[(pyrrolidin-2-yl)methoxy]-7-cyclopentyloxyquinazoline 295330-50-6P, (S)-4-[(3-Chloro-4-fluorophenyl)amino]-6-[(pyrrolidin-2-yl)methoxy]-7-cyclopentylmethoxyquinazoline 295330-57-3P, 4-[(3-Bromophenyl)amino]-6-(2-bromoethoxy)-7-methoxyquinazoline 295330-58-4P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-(2-bromoethoxy)-7-cyclopentyloxyquinazoline 295330-60-8P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-cyclopentyloxy-7-(2-bromoethoxy)quinazoline 295330-61-9P, 4-[(3-Bromophenyl)amino]-6-hydroxy-7-methoxyquinazoline 295330-62-0P, 4-[(3-Chloro-4-fluorophenyl)amino]-6-benzyloxy-7-hydroxyquinazoline 295330-63-1P

, 4-[(3-Chloro-4-fluorophenyl)amino]-6-cyclopentyloxy-7-hydroxyquinazoline  
**295330-64-2P**, 4-[(3-Bromophenyl)amino]-6-methylcarbonyloxy-7-methoxyquinazoline **295330-65-3P**, 4-[(3-Chloro-4-fluorophenyl)amino]-6-benzyloxy-7-(methylcarbonyloxy)quinazoline **295330-66-4P**, 4-[(3-Chloro-4-fluorophenyl)amino]-6-cyclopentyloxy-7-(methylcarbonyloxy)quinazoline **295330-67-5P**, 4-[(3-Bromophenyl)amino]-6-(oxiranylmethoxy)-7-methoxyquinazoline **295330-72-2P**, 4-[(3-Chloro-4-fluorophenyl)amino]-6-hydroxy-7-cyclopentyloxyquinazoline **295330-73-3P**, 4-[(3-Chloro-4-fluorophenyl)amino]-6-hydroxy-7-cyclopentylmethoxyquinazoline **295330-74-4P**, 4-[(3-Chloro-4-fluorophenyl)amino]-6-benzyloxy-7-cyclopentyloxyquinazoline **295330-75-5P**, 4-[(3-Chloro-4-fluorophenyl)amino]-6-benzyloxy-7-cyclopentylmethoxyquinazoline  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (intermediate; prepn. of quinazoline derivs. and other bicyclic heterocycles as tyrosine kinase inhibitors)

RN 295330-38-0 CAPLUS  
 CN 1-Piperazinecarboxylic acid, 4-[3-[[4-[(3-chloro-4-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 295330-39-1 CAPLUS  
 CN 1-Piperidinecarboxylic acid, 4-[3-[[4-[(3-chloro-4-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

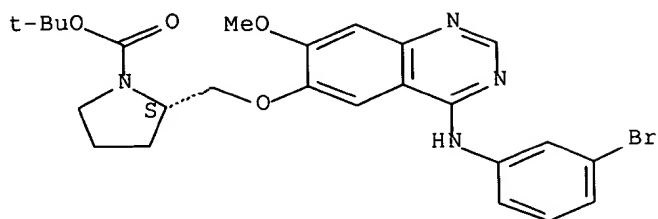


RN 295330-40-4 CAPLUS  
 CN 1-Pyrrolidinecarboxylic acid, 2-[[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyl]oxy]methyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA

INDEX

NAME)

Absolute stereochemistry.



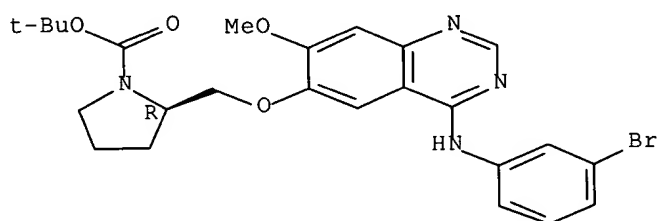
RN 295330-41-5 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[4-[(3-bromophenyl)amino]-7-methoxy-6-quinazolinyloxy]methyl]-, 1,1-dimethylethyl ester, (2R)- (9CI) (CA

INDEX

NAME)

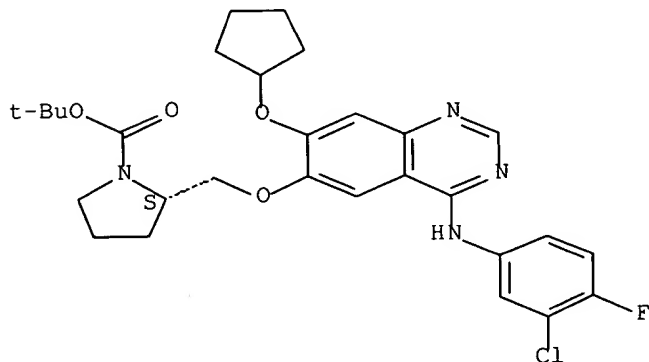
Absolute stereochemistry.



RN 295330-42-6 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentyloxy)-6-quinazolinyloxy]methyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

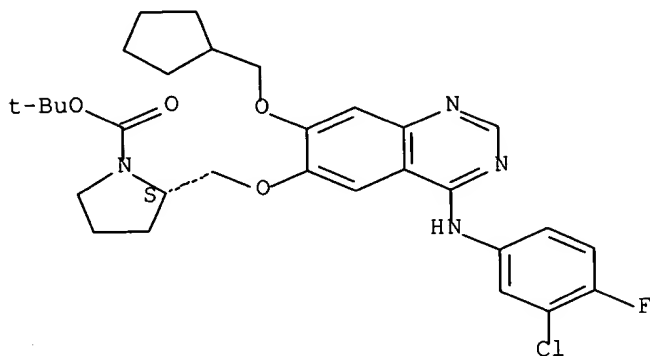
Absolute stereochemistry.



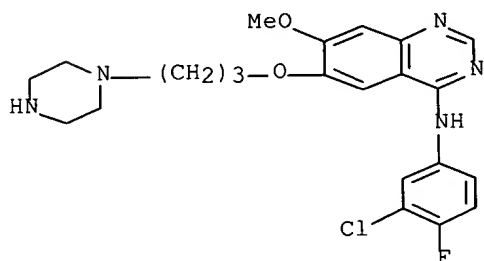
RN 295330-43-7 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentylmethoxy)-6-quinazolinyl]oxy)methyl]-, 1,1-dimethylethyl ester,  
(2S)- (9CI) (CA INDEX NAME)

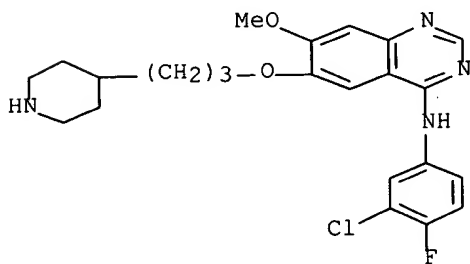
Absolute stereochemistry.



RN 295330-45-9 CAPLUS  
CN 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-methoxy-6-[3-(1-piperazinyl)propoxy]- (9CI) (CA INDEX NAME)



RN 295330-46-0 CAPLUS  
CN 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-methoxy-6-[3-(4-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)

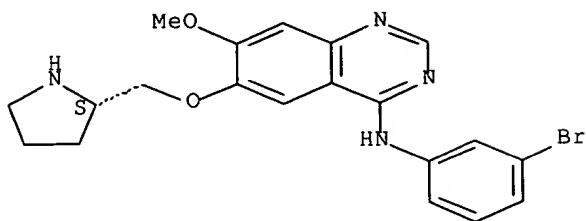


RN 295330-47-1 CAPLUS  
CN 4-Quinazolinamine, N-(3-bromophenyl)-7-methoxy-6-[(2S)-2-



pyrrolidinylmethoxy]- (9CI) (CA INDEX NAME)

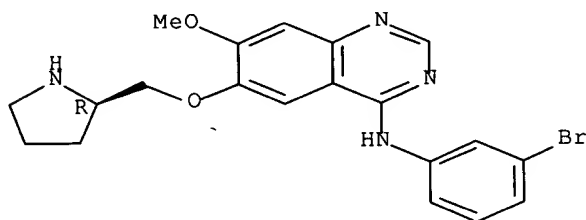
Absolute stereochemistry.



RN 295330-48-2 CAPLUS

CN 4-Quinazolinamine, N-(3-bromophenyl)-7-methoxy-6-[(2R)-2-pyrrolidinylmethoxy]- (9CI) (CA INDEX NAME)

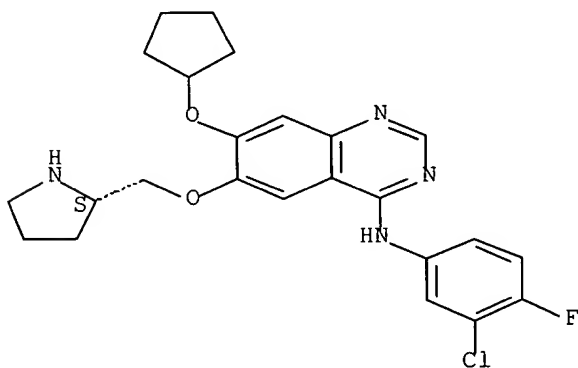
Absolute stereochemistry.



RN 295330-49-3 CAPLUS

CN 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-(cyclopentyloxy)-6-[(2S)-2-pyrrolidinylmethoxy]- (9CI) (CA INDEX NAME)

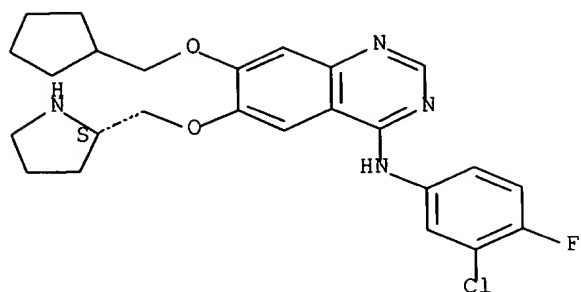
Absolute stereochemistry.



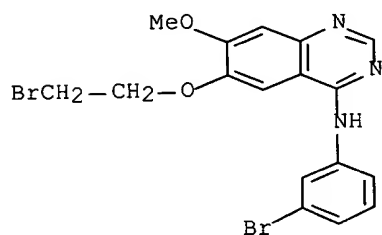
RN 295330-50-6 CAPLUS

CN 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-(cyclopentylmethoxy)-6-[(2S)-2-pyrrolidinylmethoxy]- (9CI) (CA INDEX NAME)

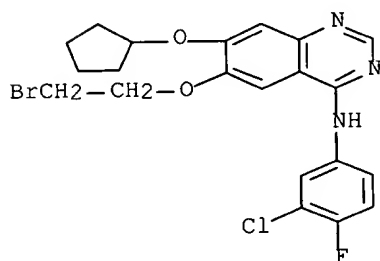
Absolute stereochemistry.



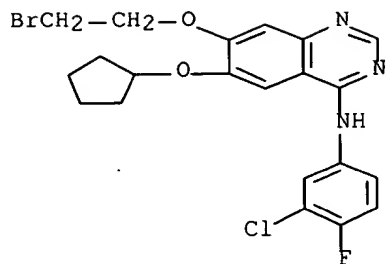
RN 295330-57-3 CAPLUS  
 CN 4-Quinazolinamine, 6-(2-bromoethoxy)-N-(3-bromophenyl)-7-methoxy- (9CI)  
 (CA INDEX NAME)



RN 295330-58-4 CAPLUS  
 CN 4-Quinazolinamine, 6-(2-bromoethoxy)-N-(3-chloro-4-fluorophenyl)-7-(cyclopentyloxy)- (9CI) (CA INDEX NAME)

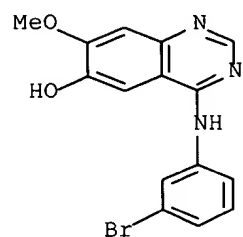


RN 295330-60-8 CAPLUS  
 CN 4-Quinazolinamine, 7-(2-bromoethoxy)-N-(3-chloro-4-fluorophenyl)-6-(cyclopentyloxy)- (9CI) (CA INDEX NAME)



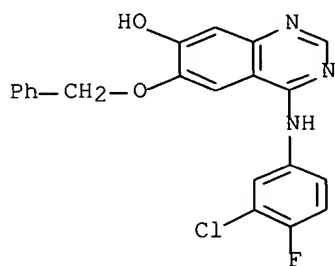
RN 295330-61-9 CAPLUS

CN 6-Quinazolinol, 4-[(3-bromophenyl)amino]-7-methoxy- (9CI) (CA INDEX NAME)



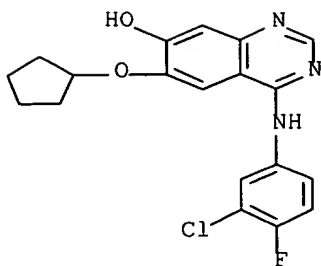
RN 295330-62-0 CAPLUS

CN 7-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 295330-63-1 CAPLUS

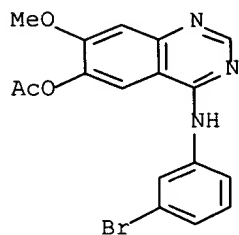
CN 7-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-6-(cyclopentyloxy)- (9CI) (CA INDEX NAME)



RN 295330-64-2 CAPLUS

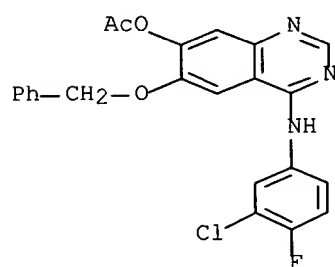
CN 6-Quinazolinol, 4-[(3-bromophenyl)amino]-7-methoxy-, acetate (ester)  
(9CI)

(CA INDEX NAME)



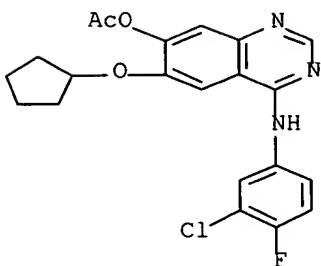
RN 295330-65-3 CAPLUS

CN 7-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-6-(phenylmethoxy)-,  
acetate (ester) (9CI) (CA INDEX NAME)



RN 295330-66-4 CAPLUS

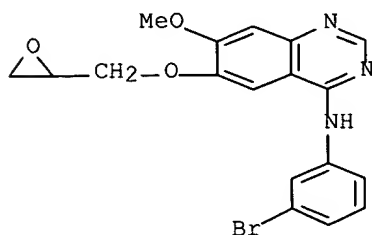
CN 7-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-6-(cyclopentyloxy)-,  
acetate (ester) (9CI) (CA INDEX NAME)



RN 295330-67-5 CAPLUS

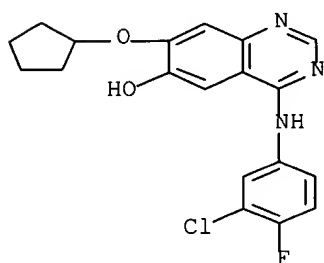
CN 4-Quinazolinamine, N-(3-bromophenyl)-7-methoxy-6-(oxiranylmethoxy)-  
(9CI)

(CA INDEX NAME)



RN 295330-72-2 CAPLUS

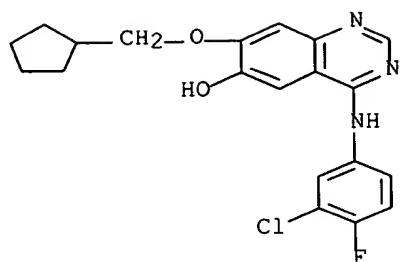
CN 6-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopentyloxy)-  
(9CI) (CA INDEX NAME)



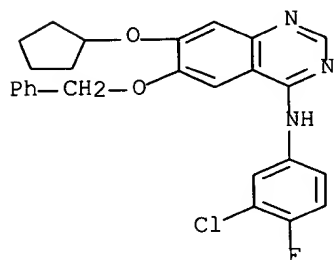
RN 295330-73-3 CAPLUS

CN 6-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-7-  
(cyclopentylmethoxy)-

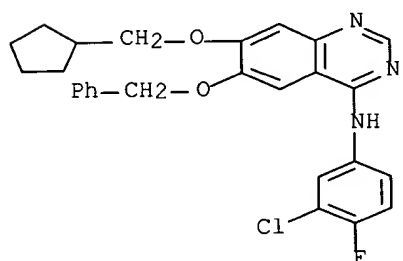
(9CI) (CA INDEX NAME)



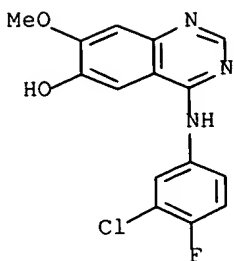
RN 295330-74-4 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-(cyclopentyloxy)-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 295330-75-5 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-(cyclopentylmethoxy)-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT **184475-71-6**, 4-(3-Chloro-4-fluorophenylamino)-6-hydroxy-7-methoxyquinazoline  
 RL: RCT (Reactant)  
 (starting material; prepn. of quinazoline derivs. and other bicyclic heterocycles as tyrosine kinase inhibitors)  
 RN 184475-71-6 CAPLUS  
 CN 6-Quinazolinol, 4-[(3-chloro-4-fluorophenyl)amino]-7-methoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

~~116~~ ANSWER 5 OF 13 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2000:144864 CAPLUS  
DOCUMENT NUMBER: 132:189690  
TITLE: Therapeutic uses of quinazoline derivatives as JAK-3  
kinase inhibitors  
INVENTOR(S): Navara, Christopher S.; Mahajan, Sandeep; Uckun,  
Fatih  
M.  
PATENT ASSIGNEE(S): Hughes Institute, USA  
SOURCE: PCT Int. Appl., 131 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000010981	A1	20000302	WO 1999-US19043	19990820
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9956827	A1	20000314	AU 1999-56827	19990820
EP 1105378	A1	20010613	EP 1999-943800	19990820
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
US 6313129	B1	20011106	US 1999-378093	19990820
NO 2001000887	A	20010423	NO 2001-887	20010221
US 2001044442	A1	20011122	US 2001-812098	20010319
PRIORITY APPLN. INFO.:			US 1998-97359	P 19980821
			US 1998-97365	P 19980821
			US 1999-378093	A1 19990820
			WO 1999-US19043	W 19990820

OTHER SOURCE(S): MARPAT 132:189690

AB The invention provides novel JAK-3 kinase inhibitors that are useful for treating leukemia and lymphoma. The compds. are also useful to treat or prevent skin cancer, as well as sunburn and UVB-induced skin inflammation. In addn., the compds. of the present invention prevent the immunosuppressive effects of UVB radiation, and are useful to treat or prevent autoimmune diseases, inflammation, and transplant rejection. The invention also provides pharmaceutical compns.

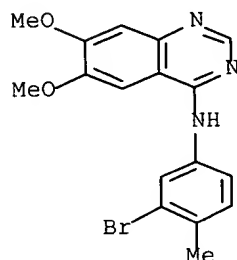
comprising compds. of the invention, as well as therapeutic methods for their use. For example, treatments with 50 mg/kg or 75 mg/kg of a quinazoline deriv. WHI-P131 (prepn. given) were as effective as cyclosporin A treatment in prolongation of islet allograft survival in mice.

IT 211555-06-5P, WHI-P 111

RL: BAC (Biological activity or effector, except adverse); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(WHI-P 111; therapeutic uses of quinazoline derivs. as JAK-3 kinase inhibitors)

RN 211555-06-5 CAPLUS

CN 4-Quinazolinamine, N-(3-bromo-4-methylphenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)

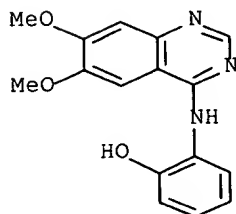


IT 211555-07-6P, WHI-P 132

RL: BAC (Biological activity or effector, except adverse); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(WHI-P 132; therapeutic uses of quinazoline derivs. as JAK-3 kinase inhibitors)

RN 211555-07-6 CAPLUS

CN Phenol, 2-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA INDEX NAME)



IT 211555-09-8P, WHI-P 197



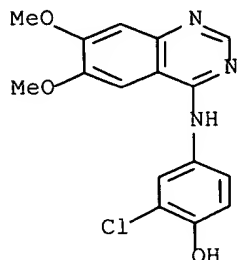
RL: BAC (Biological activity or effector, except adverse); PNU  
 (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (WHI-P 197; therapeutic uses of quinazoline derivs. as JAK-3 kinase  
 inhibitors)

RN 211555-09-8 CAPLUS

CN Phenol, 2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA

INDEX

NAME)

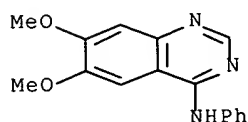


IT 21561-09-1P, WHI-P 258

RL: BAC (Biological activity or effector, except adverse); PNU  
 (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (WHI-P 258; therapeutic uses of quinazoline derivs. as JAK-3 kinase  
 inhibitors)

RN 21561-09-1 CAPLUS

CN 4-Quinazolinamine, 6,7-dimethoxy-N-phenyl- (9CI) (CA INDEX NAME)



IT 251376-04-2P, WHI-P 292

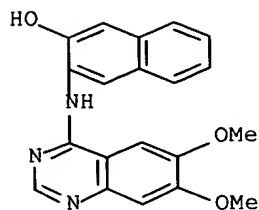
RL: BAC (Biological activity or effector, except adverse); PNU  
 (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (WHI-P 292; therapeutic uses of quinazoline derivs. as JAK-3 kinase  
 inhibitors)

RN 251376-04-2 CAPLUS

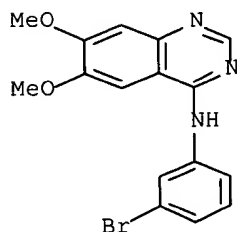
CN 2-Naphthalenol, 3-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA

INDEX

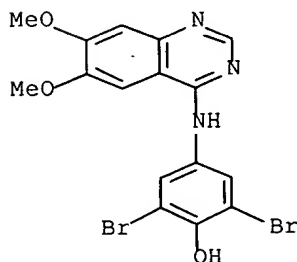
NAME)



IT **153436-54-5P**, WHI-P 79  
 RL: BAC (Biological activity or effector, except adverse); PNU  
 (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (WHI-P 79; therapeutic uses of quinazoline derivs. as JAK-3 kinase  
 inhibitors)  
 RN 153436-54-5 CAPLUS  
 CN 4-Quinazolinamine, N-(3-bromophenyl)-6,7-dimethoxy- (9CI) (CA INDEX  
 NAME)

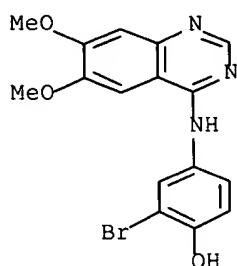


IT **211555-05-4P**, WHI-P 97  
 RL: BAC (Biological activity or effector, except adverse); PNU  
 (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (WHI-P 97; therapeutic uses of quinazoline derivs. as JAK-3 kinase  
 inhibitors)  
 RN 211555-05-4 CAPLUS  
 CN Phenol, 2,6-dibromo-4-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA  
 INDEX NAME)

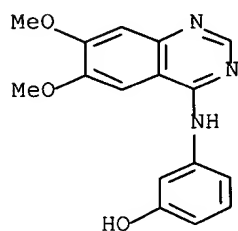


IT **211555-04-3P**, WHI-P154 **211555-08-7P**, WHI-P180  
**247080-98-4P**, WHI-P 112  
 RL: BAC (Biological activity or effector, except adverse); PNU

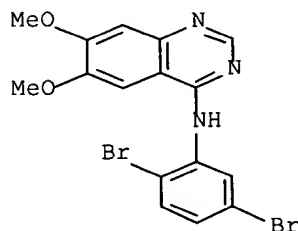
(Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (therapeutic uses of quinazoline derivs. as JAK-3 kinase inhibitors)  
 RN 211555-04-3 CAPLUS  
 CN Phenol, 2-bromo-4-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA INDEX NAME)



RN 211555-08-7 CAPLUS  
 CN Phenol, 3-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA INDEX NAME)

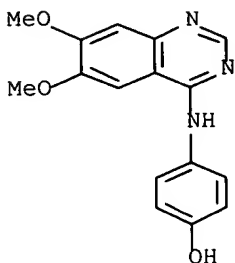


RN 247080-98-4 CAPLUS  
 CN 4-Quinazolinamine, N-(2,5-dibromophenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



IT **202475-60-3P**, WHI-P131  
 RL: BAC (Biological activity or effector, except adverse); SPN  
 (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (therapeutic uses of quinazoline derivs. as JAK-3 kinase inhibitors)

RN 202475-60-3 CAPLUS  
CN Phenol, 4-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

16 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:22595 CAPLUS

DOCUMENT NUMBER: 132:288733

TITLE: Growth inhibition of psoriatic keratinocytes by  
quinazoline tyrosine kinase inhibitors

AUTHOR(S): Powell, T. J.; Ben-Bassat, H.; Klein, B. Y.; Chen,  
H.;

Shenoy, N.; McCollough, J.; Narog, B.; Gazit, A.;  
Harzstark, Z.; Chaouat, M.; Levitzki, R.; Tang, C.;  
McMahon, J.; Shawver, L.; Levitzki, A.

CORPORATE SOURCE: SUGEN, Inc., Redwood City, CA, 94063, USA  
SOURCE: Br. J. Dermatol. (1999), 141(5), 802-810

CODEN: BJDEAZ; ISSN: 0007-0963

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Psoriasis is characterized by hyperproliferation of keratinocytes  
assocd.

with an **inflammatory** infiltrate in the epidermis. Among factors  
which may be related to hyperplasia of psoriatic keratinocytes is the  
persistent autocrine stimulation of the epidermal growth factor receptor  
(EGFR) by transforming growth factor- $\alpha$ . Owing to the pivotal role  
of the EGFR in driving the growth of human psoriatic keratinocytes, we  
examd. two selective inhibitors of EGFR kinase activity:

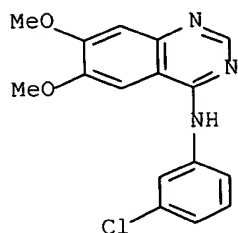
4-(3-bromophenylamino)-6,7-dimethoxyquinazoline (AG1517/SU5271) and  
4-(3-chlorophenylamino)-6,7-dimethoxyquinazoline (AG1478) on psoriatic  
keratinocytes. SU5271 potently inhibits ligand-induced  
autophosphorylation of EGFR, and downstream signal transduction events,  
including DNA replication and cell cycle progression. SU5271, at  
micromolar concns., inhibited the proliferation of keratinocytes

isolated

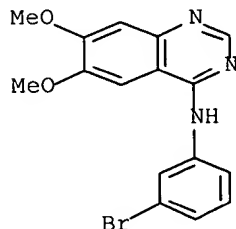
from psoriatic lesions in excellent correlation with its EGFR kinase  
inhibitory activity in these cells. Biol. active concns. of SU5271  
penetrated human cadaver skin, suggesting that this compd. is a strong  
candidate as an antipsoriatic agent.

IT 153436-53-4, AG1478

RL: BAC (Biological activity or effector, except adverse); BPR  
 (Biological  
 process); THU (Therapeutic use); BIOL (Biological study); PROC  
 (Process);  
 USES (Uses)  
 (growth inhibition of psoriatic keratinocytes by quinazoline tyrosine  
 kinase inhibitors via inhibition of EGF signaling)  
 RN 153436-53-4 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chlorophenyl)-6,7-dimethoxy- (9CI) (CA INDEX  
 NAME)



IT 153436-54-5, AG 1517  
 RL: BAC (Biological activity or effector, except adverse); BPR  
 (Biological  
 process); THU (Therapeutic use); BIOL (Biological study); PROC  
 (Process);  
 USES (Uses)  
 (vgrowth inhibition of psoriatic keratinocytes by quinazoline  
 tyrosine  
 kinase inhibitors via inhibition of EGF signaling)  
 RN 153436-54-5 CAPLUS  
 CN 4-Quinazolinamine, N-(3-bromophenyl)-6,7-dimethoxy- (9CI) (CA INDEX  
 NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L16 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1999:784082 CAPLUS  
 DOCUMENT NUMBER: 132:22963  
 TITLE: Preparation of N-(pyrazolylphenyl)alkanamides and  
 analogs as IL-2 production inhibitors

INVENTOR(S): Betageri, Rajashekhar; Cywin, Charles L.; Hargrave, Karl; Hoermann, Mary Ann; Kirrane, Thomas M.; Parks, Thomas M.; Patel, Usha R.; Proudfoot, John R.; Sharma, Rajiv; Sun, Sanxing; Wang, Xiao-Jun

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 130 pp.  
CODEN: PIXXD2

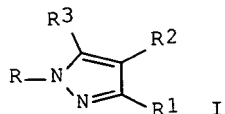
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9962885	A1	19991209	WO 1999-US12295	19990603
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
AU 9942299	A1	19991220	AU 1999-42299	19990603
PRIORITY APPLN. INFO.:			US 1998-88154	P 19980605
			WO 1999-US12295	W 19990603
OTHER SOURCE(S):			MARPAT 132:22963	
GI				

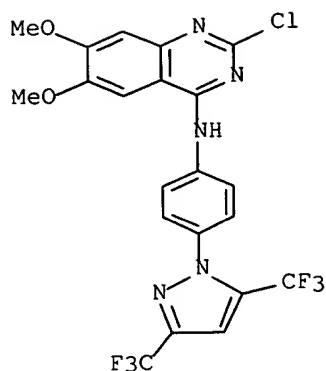


AB Title compds. [I; R = R4Z1Z; R1,R3 = halo, CF3, alkyl, alkoxy, etc.; R2 = H, halo, Me; R4 = (cyclo)alkyl, alkoxy, alkylamino, etc.; Z = 1,4-phenylene; Z1 = CONH, CO2NH, NH, etc.] were prepd. Thus, I [R = 4-(R5HN)C6H4, R1 = R3 = CF3, R2 = H] (II; R5 = H) was amidated by cyclohexanecarboxylic acid to give II (R5 = cyclohexylcarbonyl). Data for biol. activity of I were given.

IT **251657-95-1P**  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of 1-(4-aminophenyl)pyrazoles and their use as anti-inflammatory agents)

RN 251657-95-1 CAPLUS

CN 4-Quinazolinamine, N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6,7-dimethoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

# FORMAT

ANSWER 8 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:659226 CAPLUS

DOCUMENT NUMBER: 131:281600

TITLE: Methods and compositions for reducing UV-induced inhibition of collagen synthesis in human skin

INVENTOR(S): Fisher, Gary J.; Voorhees, John J.

PATENT ASSIGNEE(S): The Regents of the University of Michigan, USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9951220	A1	19991014	WO 1999-US7267	19990402
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9936374	A1	19991025	AU 1999-36374	19990402
AU 740569	B2	20011108		
BR 9909899	A	20001226	BR 1999-9899	19990402
EP 1067920	A1	20010117	EP 1999-918456	19990402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

## PRIORITY APPLN. INFO.:

US 1998-80437 P 19980402  
WO 1999-US7267 W 19990402

AB Exposure of human skin to UV (UV) radiation from the sun not only induces the prodn. of enzymes (matrix metalloproteinases) that degrade collagen, but also inhibits the synthesis of new collagen

by

inhibiting the synthesis of procollagen. This UV-induced inhibition of the synthesis of collagen can be prevented by the topical application of

a

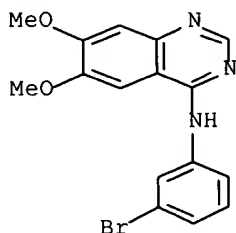
retinoid or c-JUN inhibitor to the skin prior to its exposure to **UV radiation**. It was shown that retinoids such as retinoic acid protect human skin in vivo against the UV-induced inhibition of collagen synthesis.

IT 153436-54-5, PD 153035

RL: BSU (Biological study, unclassified); BIOL (Biological study) (ionophore or G-protein or EGF receptor antagonist; retinoids for reducing UV-induced inhibition of collagen synthesis in human skin)

RN 153436-54-5 CAPLUS

CN 4-Quinazolinamine, N-(3-bromophenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L16 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:105843 CAPLUS

DOCUMENT NUMBER: 128:136497

TITLE: Aryl and heteroaryl quinazoline compounds which inhibit EGF and/or PDGF receptor tyrosine kinase

INVENTOR(S): Myers, Michael R.; Spada, Alfred P.; Maguire, Martin P.; Persons, Paul E.

PATENT ASSIGNEE(S): Rhone-Poulenc Rorer Pharmaceuticals Inc., USA

SOURCE: U.S., 19 pp. Cont.-in-part of U.S. 5,480,883.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5710158	A	19980120	US 1994-229886	19940419
US 5480883	A	19960102	US 1993-166199	19931210
WO 9515758	A1	19950615	WO 1994-US14180	19941208

W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ,

VN



RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,  
 MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,  
 TD, TG

AU 9513050	A1	19950627	AU 1995-13050	19941208
EP 871448	A1	19981021	EP 1995-904308	19941208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
US 5656643	A	19970812	US 1995-385258	19950208
US 5714493	A	19980203	US 1996-652444	19960604

PRIORITY APPLN. INFO.:

US 1991-698420	19910510
US 1992-988515	19921210
US 1993-166199	19931210
US 1993-146072	19931108
US 1994-229886	19940419
WO 1994-US14180	19941208

OTHER SOURCE(S): MARPAT 128:136497

AB This invention relates to the modulation and/or inhibition of cell signaling, cell proliferation, cell **inflammatory** response, the control of abnormal cell growth and cell reprodn. More specifically, this invention relates to the use of mono- and/or bicyclic aryl or heteroaryl quinazoline compds. in inhibiting cell proliferation, including compds. which are useful protein tyrosine kinase (PTK) inhibitors. The method of treating cell proliferation using said quinazoline compds. and their use in pharmaceutical compns. is described. A no. of compds. were tested for inhibition of PDGF receptor cell-free antophosphorylation procedure.

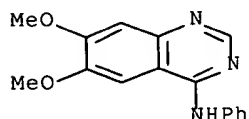
IT 21561-09-1 37514-62-8 153436-53-4  
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 174891-29-3 174892-57-0 174892-58-1  
 186138-04-5 202475-38-5 202475-41-0  
 202475-44-3 202475-49-8 202475-51-2  
 202475-54-5 202475-55-6 202475-57-8  
 202475-58-9 202475-59-0 202475-60-3  
 202475-61-4 202475-62-5 202475-63-6  
 202475-64-7 202475-65-8 202475-66-9  
 202475-67-0 202475-70-5 202475-71-6

RL: BAC (Biological activity or effector, except adverse); THU  
 (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (aryl and heteroaryl quinazoline compds. which inhibit EGF and/or

PDGF receptor tyrosine kinase)

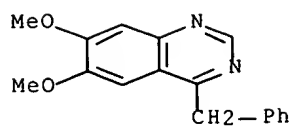
RN 21561-09-1 CAPLUS

CN 4-Quinazolinamine, 6,7-dimethoxy-N-phenyl- (9CI) (CA INDEX NAME)

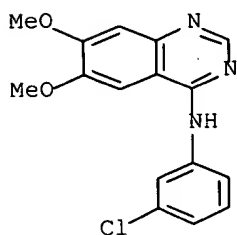


RN 37514-62-8 CAPLUS

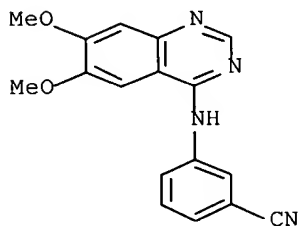
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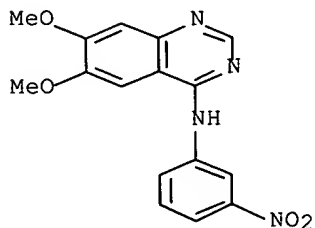
RN 153436-53-4 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chlorophenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



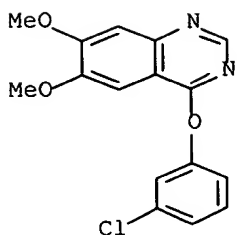
RN 153437-65-1 CAPLUS  
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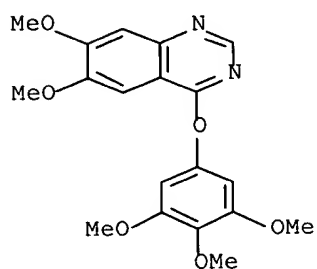
RN 153437-80-0 CAPLUS  
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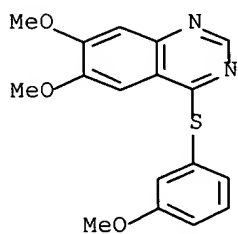
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 CN Quinazoline, 4-(3-chlorophenoxy)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



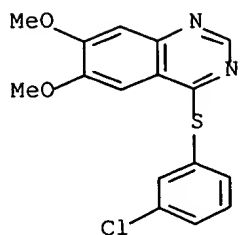
RN 167410-65-3 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(3,4,5-trimethoxyphenoxy)- (9CI) (CA INDEX NAME)



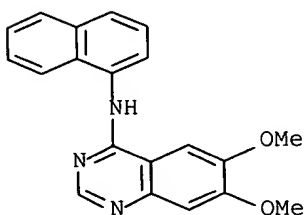
RN 167410-67-5 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-[(3-methoxyphenyl)thio]- (9CI) (CA INDEX NAME)



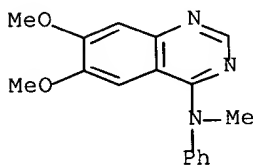
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 CN Quinazoline, 4-[(3-chlorophenyl)thio]-6,7-dimethoxy- (9CI) (CA INDEX NAME)



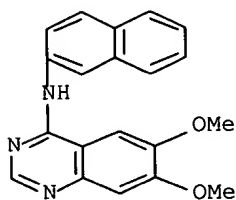
RN 174891-29-3 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-1-naphthalenyl- (9CI) (CA INDEX  
 NAME)



RN 174892-57-0 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-phenyl- (9CI) (CA INDEX  
 NAME)

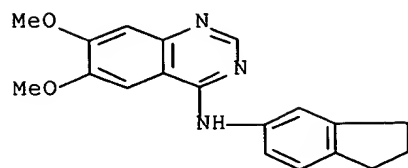


RN 174892-58-1 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-2-naphthalenyl- (9CI) (CA INDEX  
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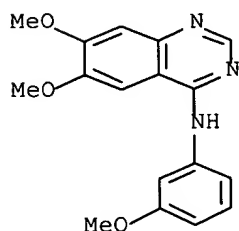


RN 186138-04-5 CAPLUS  
 CN 4-Quinazolinamine, N-(2,3-dihydro-1H-inden-5-yl)-6,7-dimethoxy- (9CI)  
 (CA

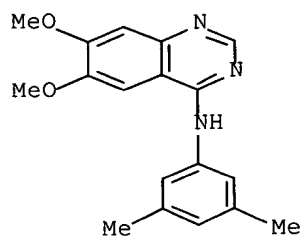
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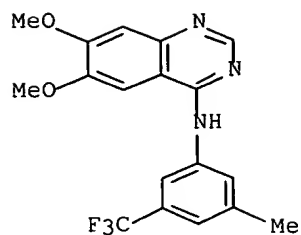
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CN 4-Quinazolinamine, 6,7-dimethoxy-N-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)



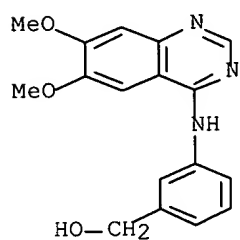
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CN 4-Quinazolinamine, N-(3,5-dimethylphenyl)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



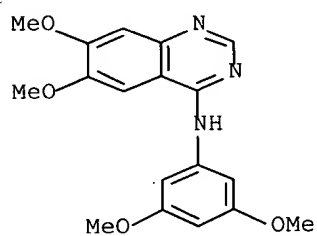
RN 202475-44-3 CAPLUS  
CN 4-Quinazolinamine, 6,7-dimethoxy-N-[3-methyl-5-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



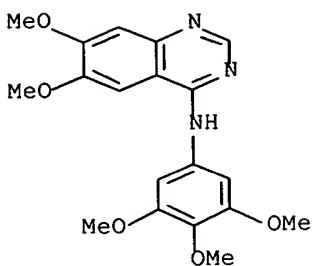
RN 202475-49-8 CAPLUS  
 CN Benzenemethanol, 3-[(6,7-dimethoxy-4-quinazolinyl)amino]- (9CI) (CA  
 INDEX  
 NAME)



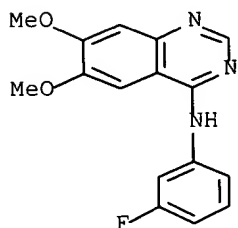
RN 202475-51-2 CAPLUS  
 CN 4-Quinazolinamine, N-(3,5-dimethoxyphenyl)-6,7-dimethoxy- (9CI) (CA  
 INDEX  
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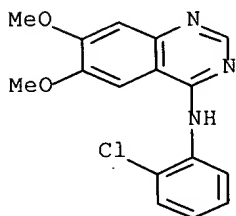
RN 202475-54-5 CAPLUS  
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 INDEX NAME)



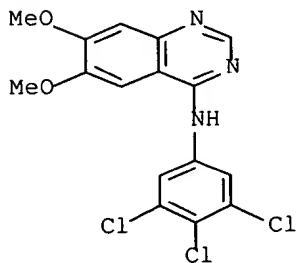
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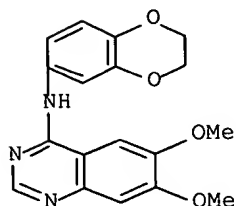
RN 202475-57-8 CAPLUS  
 CN 4-Quinazolinamine, N-(2-chlorophenyl)-6,7-dimethoxy- (9CI) (CA INDEX  
 NAME)



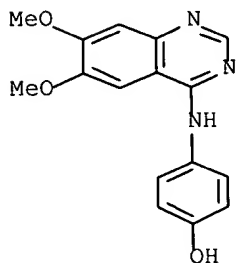
RN 202475-58-9 CAPLUS  
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 INDEX NAME)



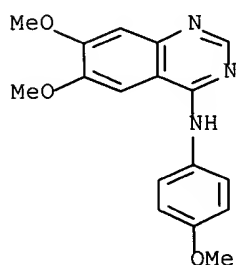
RN 202475-59-0 CAPLUS  
 CN 4-Quinazolinamine, N-(2,3-dihydro-1,4-benzodioxin-6-yl)-6,7-dimethoxy-  
 (9CI) (CA INDEX NAME)



RN 202475-60-3 CAPLUS  
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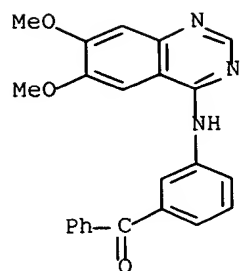


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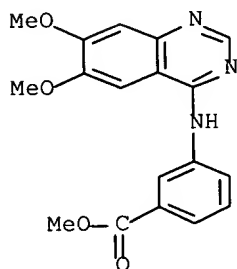


RN 202475-62-5 CAPLUS  
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 (CA INDEX NAME)

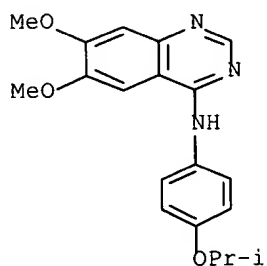




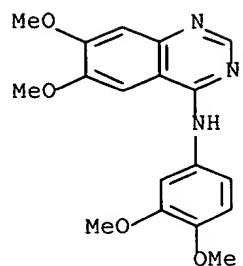
RN 202475-63-6 CAPLUS  
 CN Benzoic acid, 3-[(6,7-dimethoxy-4-quinazolinyl)amino]-, methyl ester  
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 (CA INDEX NAME)



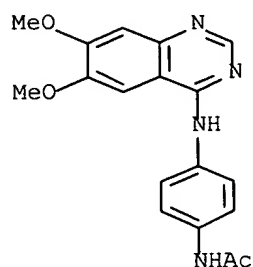
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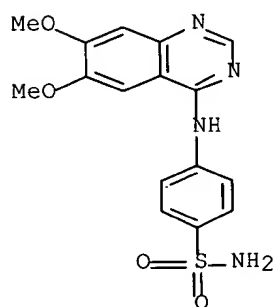
RN 202475-65-8 CAPLUS  
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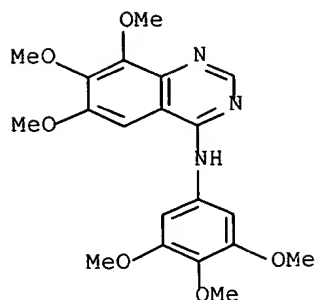
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 INDEX NAME)



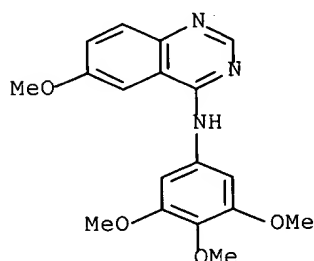
RN 202475-67-0 CAPLUS  
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 INDEX NAME)



RN 202475-70-5 CAPLUS  
 CN 4-Quinazolinamine, 6,7,8-trimethoxy-N-(3,4,5-trimethoxyphenyl)- (9CI)  
 (CA  
 INDEX NAME)



RN 202475-71-6 CAPLUS  
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 INDEX  
 NAME)

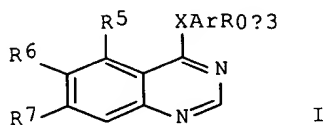


L16 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1998:98053 CAPLUS  
 DOCUMENT NUMBER: 128:154094  
 TITLE: Preparation of (hetero)arylquinazolines which  
 inhibit CSF-1R receptor tyrosine kinase.  
 INVENTOR(S): Myers, Michael R.; Spada, Alfred P.; Maguire, Martin  
 P.; Persons, Paul E.; Zilberstein, Asher; Hsu, Chin-  
 Yi Jenny; Johnson, Susan E.  
 PATENT ASSIGNEE(S): Rhone-Poulenc Rorer Pharmaceuticals, Inc., USA  
 SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 229,886.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5714493	A	19980203	US 1996-652444	19960604
US 5480883	A	19960102	US 1993-166199	19931210
US 5710158	A	19980120	US 1994-229886	19940419
WO 9515758	A1	19950615	WO 1994-US14180	19941208

W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,

GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,  
 NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ,  
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 RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,  
 MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,  
 TD, TG  
 US 5656643 A 19970812 US 1995-385258 19950208  
 PRIORITY APPLN. INFO.: US 1991-698420 19910510  
 US 1992-988515 19921210  
 US 1993-166199 19931210  
 US 1994-229886 19940419  
 WO 1994-US14180 19941208  
 US 1993-146072 19931108  
 OTHER SOURCE(S): MARPAT 128:154094  
 GI

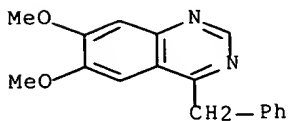


AB Title compds. [I; Ar = (substituted) mono- or bicyclic aryl, heteroaryl;  
 X  
 = bond, O, S, SO, SO<sub>2</sub>, OCH<sub>2</sub>, C:C, C.tplbond.C, CS, SCH<sub>2</sub>, NH, NHCH<sub>2</sub>, NR<sub>4</sub>,  
 NR<sub>4</sub>CH<sub>2</sub>; R = H, alkyl, alkenyl, Ph, aralkyl, aralkenyl, hydroxy,  
 hydroxyalkyl, alkoxy, alkoxyalkyl, aralkoxy, aryloxy, acyloxy, halo,  
 haloalkyl, NO<sub>2</sub>, cyano, amino, acylamino, CO<sub>2</sub>H, carboxyalkyl, carbalkoxy,  
 carbaralkoxy, carbalkoxyalkyl, carbalkoxyalkenyl, aminoalkoxy, amido,  
 alkylthio, alkylsulfinyl, sulfonyl, sulfamoyl, halophenyl, PhCO; RR =  
 ketone group; R<sub>4</sub> = alkyl, CH<sub>2</sub>CH<sub>2</sub>, (CH<sub>2</sub>)<sub>3</sub>; R<sub>5</sub>-R<sub>7</sub> = H, alkyl, alkylthio,  
 cycloalkyl, OH, alkoxy, aralkoxy, aryl, halo, haloalkyl, CO<sub>2</sub>H,  
 carboalkoxy; ;with provisos], were prepd. Thus, 3-chlorophenol was  
 stirred with NaH in THF; 4-chloro-6,7-dimethoxyquinazoline was added and  
 the mixt. was stirred overnight to give 4-(3-chlorophenoxy)-6,7-  
 dimethoxyquinazoline. I inhibited CSF-1R activity with IC<sub>50</sub> = 0.18  
 .mu.M  
 to >100 .mu.M.

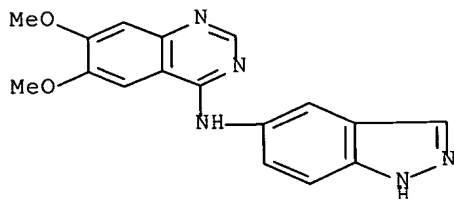
IT 37514-62-8P 159737-62-9P 167410-34-6P  
 167410-48-2P 167410-51-7P 167410-52-8P  
 167410-55-1P 167410-58-4P 167410-59-5P  
 167410-61-9P 167410-66-4P 167410-67-5P  
 167410-68-6P 167410-69-7P 167410-71-1P  
 167410-72-2P 167410-73-3P 167410-74-4P  
 167410-75-5P 167410-76-6P 167410-77-7P  
 167410-78-8P 167410-79-9P 167410-80-2P  
 167410-81-3P 174892-22-9P 174892-24-1P  
 202475-54-5P

RL: BAC (Biological activity or effector, except adverse); SPN  
 (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)

(prepn. of (hetero)arylquinazolines which inhibit CSF-1R receptor  
 tyrosine kinase)  
 RN 37514-62-8 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

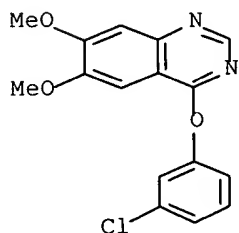


RN 159737-62-9 CAPLUS  
 CN 4-Quinazolinamine, N-1H-indazol-5-yl-6,7-dimethoxy-, monohydrochloride  
 (9CI) (CA INDEX NAME)

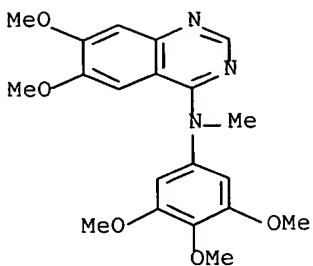


● HCl

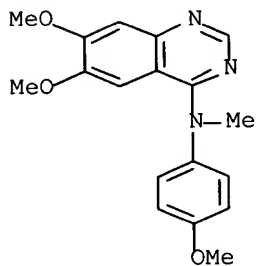
RN 167410-34-6 CAPLUS  
 CN Quinazoline, 4-(3-chlorophenoxy)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



RN 167410-48-2 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-(3,4,5-trimethoxyphenyl)-  
 (9CI) (CA INDEX NAME)

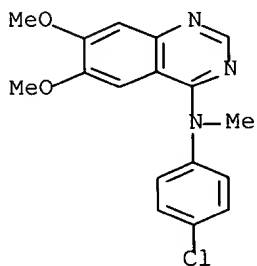


RN 167410-51-7 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-(4-methoxyphenyl)-N-methyl-,  
 monohydrochloride (9CI) (CA INDEX NAME)



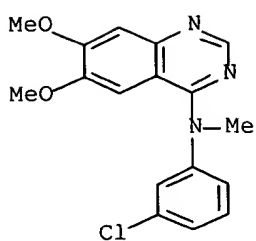
● HCl

RN 167410-52-8 CAPLUS  
 CN 4-Quinazolinamine, N-(4-chlorophenyl)-6,7-dimethoxy-N-methyl-,  
 monohydrochloride (9CI) (CA INDEX NAME)



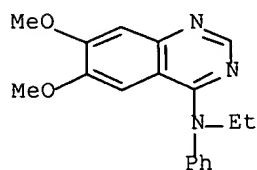
● HCl

RN 167410-55-1 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chlorophenyl)-6,7-dimethoxy-N-methyl-,  
 monohydrochloride (9CI) (CA INDEX NAME)



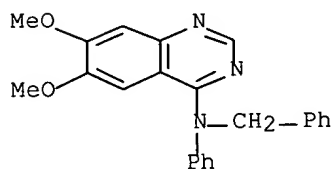
● HCl

RN 167410-58-4 CAPLUS  
 CN 4-Quinazolinamine, N-ethyl-6,7-dimethoxy-N-phenyl-, monohydrochloride  
 (9CI) (CA INDEX NAME)



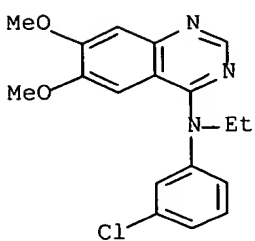
● HCl

RN 167410-59-5 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-phenyl-N-(phenylmethyl)-,  
 monohydrochloride (9CI) (CA INDEX NAME)



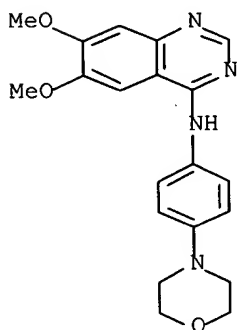
● HCl

RN 167410-61-9 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chlorophenyl)-N-ethyl-6,7-dimethoxy-,  
 monohydrochloride (9CI) (CA INDEX NAME)



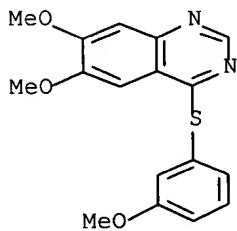
● HCl

RN 167410-66-4 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-[4-(4-morpholinyl)phenyl]-,  
 monohydrochloride (9CI) (CA INDEX NAME)



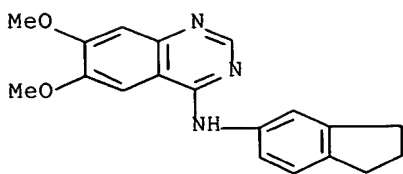
● HCl

RN 167410-67-5 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-[(3-methoxyphenyl)thio]- (9CI) (CA INDEX  
 NAME)



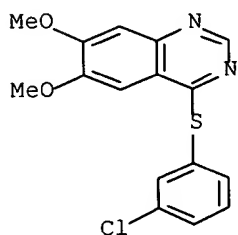
RN 167410-68-6 CAPLUS  
 CN 4-Quinazolinamine, N-(2,3-dihydro-1H-inden-5-yl)-6,7-dimethoxy-,  
 monohydrochloride (9CI) (CA INDEX NAME)



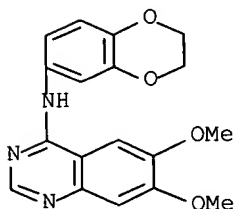


● HCl

RN 167410-69-7 CAPLUS  
 CN Quinazoline, 4-[(3-chlorophenyl)thio]-6,7-dimethoxy- (9CI) (CA INDEX NAME)

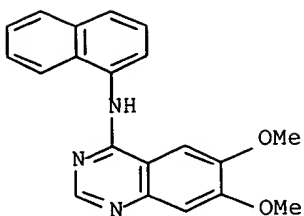


RN 167410-71-1 CAPLUS  
 CN 4-Quinazolinamine, N-(2,3-dihydro-1,4-benzodioxin-6-yl)-6,7-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)



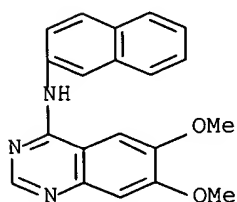
● HCl

RN 167410-72-2 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-1-naphthalenyl-, monohydrochloride (9CI) (CA INDEX NAME)



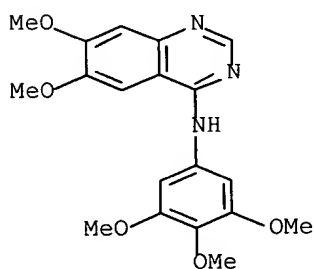
● HCl

RN 167410-73-3 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-2-naphthalenyl-, monohydrochloride  
 (9CI) (CA INDEX NAME)



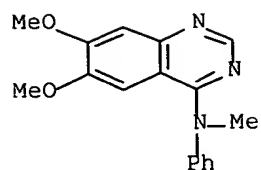
● HCl

RN 167410-74-4 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-(3,4,5-trimethoxyphenyl)-,  
 monohydrochloride (9CI) (CA INDEX NAME)



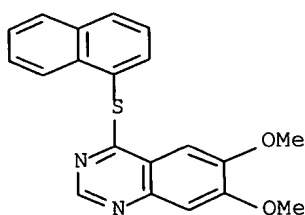
● HCl

RN 167410-75-5 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-phenyl-, monohydrochloride  
 (9CI) (CA INDEX NAME)

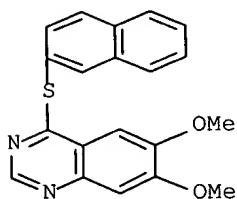


● HCl

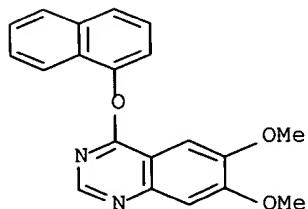
RN 167410-76-6 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(1-naphthalenylthio)- (9CI) (CA INDEX NAME)



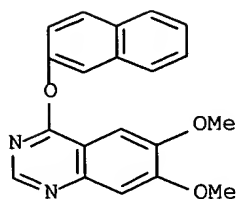
RN 167410-77-7 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenylthio)- (9CI) (CA INDEX NAME)



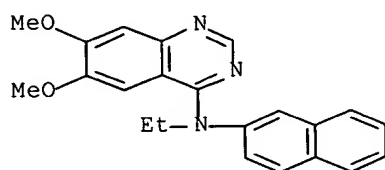
RN 167410-78-8 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(1-naphthalenyloxy)- (9CI) (CA INDEX NAME)



RN 167410-79-9 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenyloxy)- (9CI) (CA INDEX NAME)

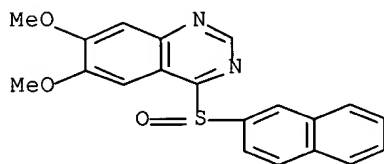


RN 167410-80-2 CAPLUS  
 CN 4-Quinazolinamine, N-ethyl-6,7-dimethoxy-N-2-naphthalenyl-,  
 monohydrochloride (9CI) (CA INDEX NAME)

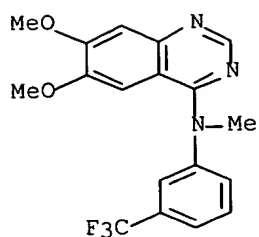


● HCl

RN 167410-81-3 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenylsulfinyl)- (9CI) (CA INDEX  
 NAME)

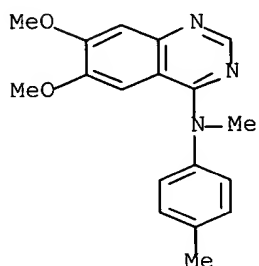


RN 174892-22-9 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-[3-(trifluoromethyl)phenyl]-  
 monohydrochloride (9CI) (CA INDEX NAME)



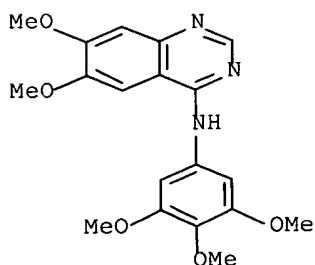
● HCl

RN 174892-24-1 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-(4-methylphenyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 202475-54-5 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



~~16~~ ANSWER 11 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1997:414195 CAPLUS  
 DOCUMENT NUMBER: 127:34137  
 TITLE: Preparation of quinoline and quinazoline derivatives inhibiting platelet-derived growth factor receptor autophosphorylation

INVENTOR(S): Kubo, Kazuo; Ohyama, Shinichi; Shimizu, Toshiyuki; Nishitoba, Tsuyoshi; Kato, Shinichiro; Murooka, Hideko; Kobayashi, Yoshiko; et al.

PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan; Kubo, Kazuo; Ohyama, Shinichi; Shimizu, Toshiyuki; Nishitoba, Tsuyoshi; Kato, Shinichiro

SOURCE: PCT Int. Appl., 243 pp.  
CODEN: PIXXD2

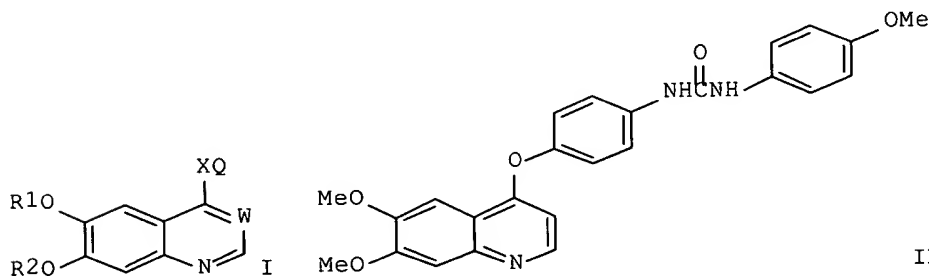
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

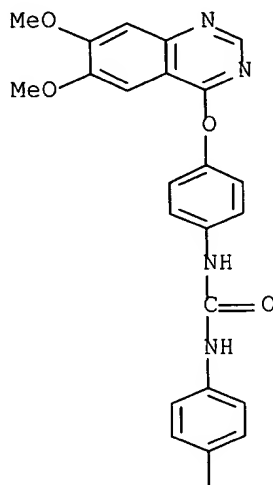
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9717329	A1	19970515	WO 1996-JP3229	19961105
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9673400	A1	19970529	AU 1996-73400	19961105
EP 860433	A1	19980826	EP 1996-935541	19961105
R: CH, DE, FR, GB, LI				
US 6143764	A	20001107	US 1998-68660	19980506
PRIORITY APPLN. INFO.:				
			JP 1995-313555	A 19951107
			JP 1996-62121	A 19960223
			WO 1996-JP3229	W 19961105
OTHER SOURCE(S):			MARPAT 127:34137	
GI				



AB The title compds. I [R1 and R2 represent each H or C1-4 alkyl, or R1 and R2 together form C1 to C3 alkylene; X represents O, S or CH2; W represents CH or N; and Q represents substituted aryl or substituted heteroaryl] are prepd. I inhibit platelet-derived growth factor receptor autophosphorylation and are useful in the treatment of cancer,

arthritis,  
 etc. The title compd. II (prepn. given) (at 100 mg/kg i.p. once daily  
 for  
 9 days) increased the survival of mice with transplanted leukemic P388  
 cells by 130%.  
 IT 190727-97-0P 190727-98-1P 190727-99-2P  
 190728-00-8P 190728-01-9P  
 RL: BAC (Biological activity or effector, except adverse); SPN  
 (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (prepn. of quinoline and quinazoline derivs. inhibiting  
 platelet-derived growth factor receptor autophosphorylation)  
 RN 190727-97-0 CAPLUS  
 CN Urea, N-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-(4-  
 methoxyphenyl)-  
 (9CI) (CA INDEX NAME)

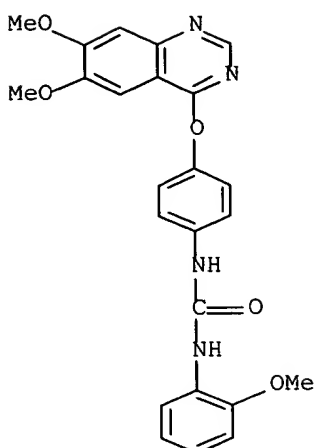
PAGE 1-A



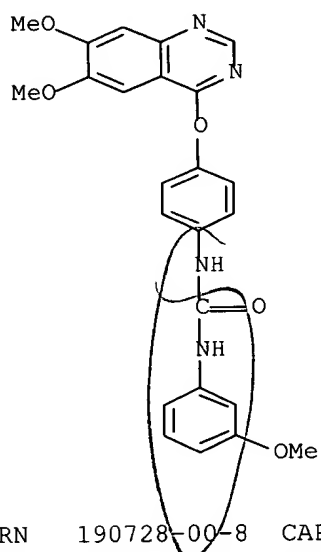
PAGE 2-A

OMe

RN 190727-98-1 CAPLUS  
 CN Urea, N-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-(2-  
 methoxyphenyl)-  
 (9CI) (CA INDEX NAME)

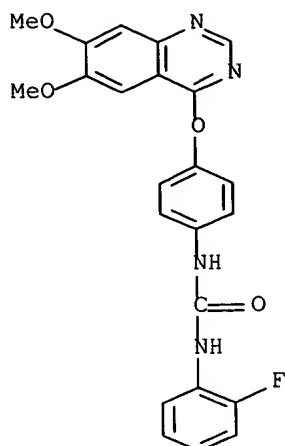


RN 190727-99-2 CAPLUS  
 CN Urea, N-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-(3-methoxyphenyl)-  
 (9CI) (CA INDEX NAME)

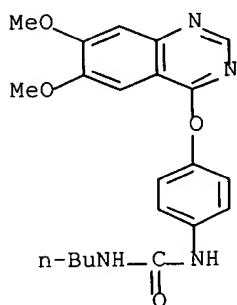


RN 190728-00-8 CAPLUS  
 CN Urea, N-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-(2-fluorophenyl)-  
 (9CI) (CA INDEX NAME)





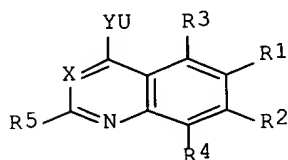
RN 190728-01-9 CAPLUS  
 CN Urea, N-butyl-N'-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]- (9CI)  
 (CA INDEX NAME)



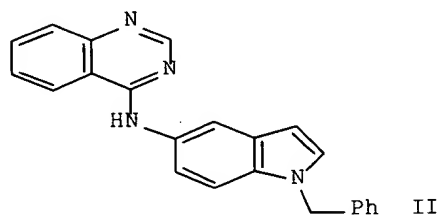
16 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1997:204146 CAPLUS  
 DOCUMENT NUMBER: 126:199580  
 TITLE: Preparation of heterocycllyl-substituted quinazolines  
 as protein tyrosine kinase inhibitors  
 INVENTOR(S): Cockerill, George Stuart; Carter, Malcolm Clive;  
 Mckeown, Stephen Karl; Vile, Sadie; Page, Martin  
 John;  
 Hudson, Alan Thomas; Barraclough, Paul; Franzmann,  
 Karl Witold  
 PATENT ASSIGNEE(S): Glaxo Group Limited, UK; Cockerill, George Stuart;  
 Carter, Malcolm Clive; Mckeown, Stephen Karl; Vile,  
 Sadie; Page, Martin John; Hudson, Alan Thomas;  
 Barraclough, Paul; Franzmann, Karl Witold  
 SOURCE: PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9703069	A1	19970130	WO 1996-EP3026	19960711
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
AU 9666139	A1	19970210	AU 1996-66139	19960711
EP 843671	A1	19980527	EP 1996-925710	19960711
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11508906	T2	19990803	JP 1996-505503	19960711
PRIORITY APPLN. INFO.:			GB 1995-14265	19950713
			WO 1996-EP3026	19960711
OTHER SOURCE(S):		MARPAT 126:199580		
GI				



I



II

AB The title compds. [I; X = N, CH; Y = OCH<sub>2</sub>, CH<sub>2</sub>O, NH, etc.; U = (un)substituted 5-10-membered mono or bicyclic ring system contg. one or more heteroatoms such as N, O, S; R<sub>1</sub>-R<sub>4</sub> = H, halo, NH<sub>2</sub>, etc.; R<sub>5</sub> = H, halo, CF<sub>3</sub>, etc.], which are protein tyrosine kinase inhibitors, and useful

in the treatment of psoriasis, fibrosis, atherosclerosis, restenosis, auto-immune disease, allergy, asthma, transplantation rejection, **inflammation**, thrombosis, nervous system diseases, and cancer, were prepd. Thus, reaction of 4-chloroquinazoline with 5-amino-1-benzylindole in iPrOH afforded II.HCl which showed IC<sub>50</sub> of

0.26

.mu.M against the c-erbB-2 kinase.

IT 187667-04-5P 187667-07-8P 187667-18-1P  
187667-28-3P 187667-31-8P 187667-34-1P  
187667-37-4P 187667-40-9P 187667-43-2P  
187667-58-9P 187667-61-4P 187667-67-0P  
187667-72-7P 187667-77-2P 187667-79-4P  
187667-86-3P 187667-89-6P 187667-92-1P  
187667-95-4P 187667-98-7P

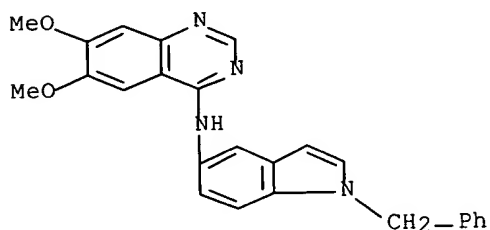
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(prepn. of heterocyclyl-substituted quinazolines as protein tyrosine kinase inhibitors)

RN 187667-04-5 CAPLUS

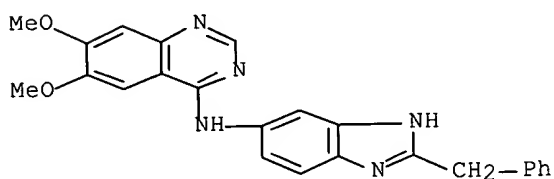
CN 4-Quinazolinamine, 6,7-dimethoxy-N-[1-(phenylmethyl)-1H-indol-5-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 187667-07-8 CAPLUS

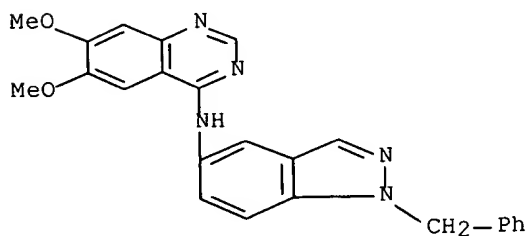
CN 4-Quinazolinamine, 6,7-dimethoxy-N-[2-(phenylmethyl)-1H-benzimidazol-5-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 187667-18-1 CAPLUS

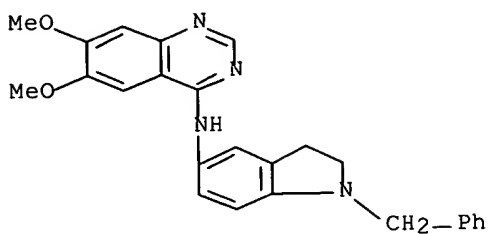
CN 4-Quinazolinamine, 6,7-dimethoxy-N-[1-(phenylmethyl)-1H-indazol-5-yl]- (9CI) (CA INDEX NAME)



RN 187667-28-3 CAPLUS

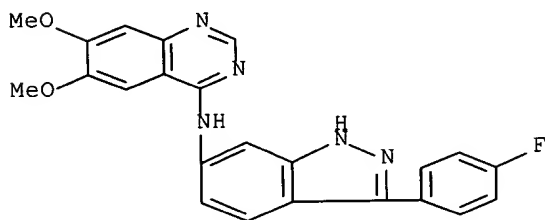
CN 4-Quinazolinamine, N-[2,3-dihydro-1-(phenylmethyl)-1H-indol-5-yl]-6,7-

dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)



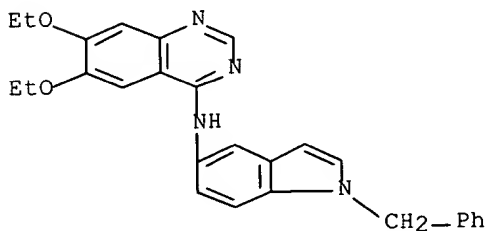
● HCl

RN 187667-31-8 CAPLUS  
CN 4-Quinazolinamine, N-[3-(4-fluorophenyl)-1H-indazol-6-yl]-6,7-dimethoxy-  
,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

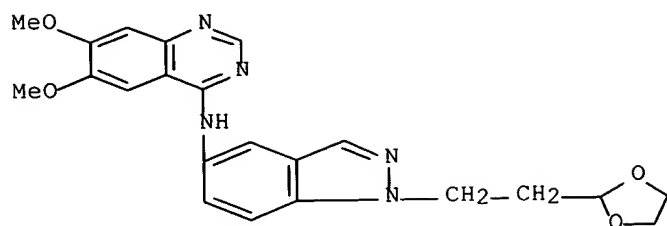
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CN 4-Quinazolinamine, 6,7-diethoxy-N-[1-(phenylmethyl)-1H-indol-5-yl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



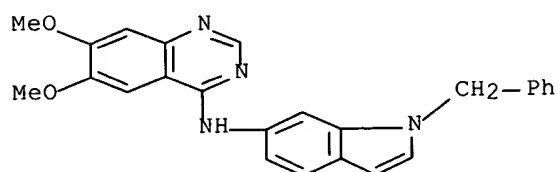
● HCl

RN 187667-37-4 CAPLUS  
CN 4-Quinazolinamine, N-[1-[2-(1,3-dioxolan-2-yl)ethyl]-1H-indazol-5-yl]-  
6,7-

dimethoxy- (9CI) (CA INDEX NAME)

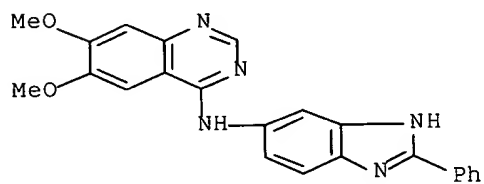


RN 187667-40-9 CAPLUS  
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monohydrochloride (9CI) (CA INDEX NAME)



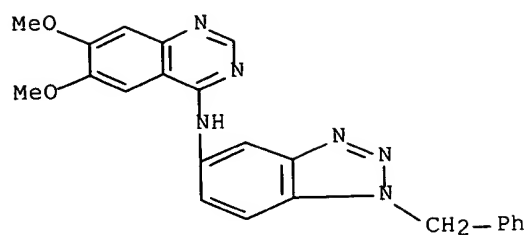
● HCl

RN 187667-43-2 CAPLUS  
CN 4-Quinazolinamine, 6,7-dimethoxy-N-(2-phenyl-1H-benzimidazol-5-yl)-,  
monohydrochloride (9CI) (CA INDEX NAME)

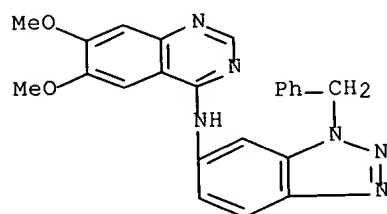


● HCl

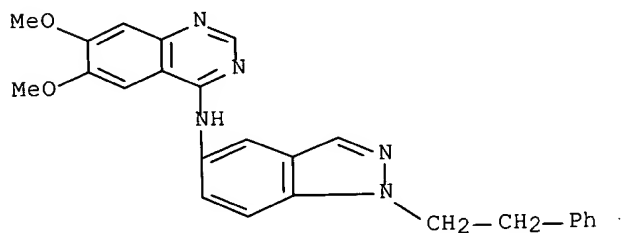
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CN 4-Quinazolinamine, 6,7-dimethoxy-N-[1-(phenylmethyl)-1H-benzotriazol-5-yl]-  
(9CI) (CA INDEX NAME)



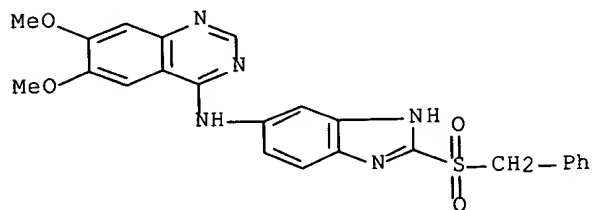
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 CN 4-Quinazolinamine, 6,7-dimethoxy-N-[1-(phenylmethyl)-1H-benzotriazol-6-yl]-  
 (9CI) (CA INDEX NAME)



RN 187667-67-0 CAPLUS  
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 (9CI) (CA INDEX NAME)

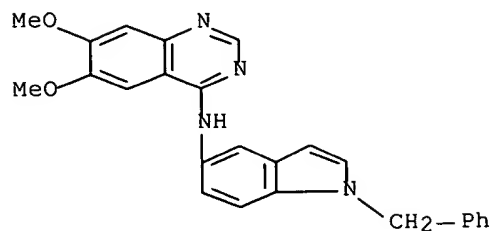


RN 187667-72-7 CAPLUS  
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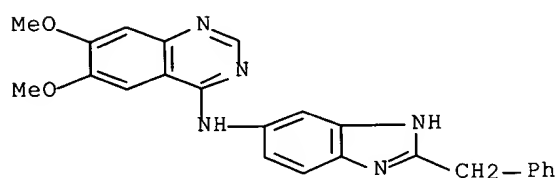


RN 187667-77-2 CAPLUS

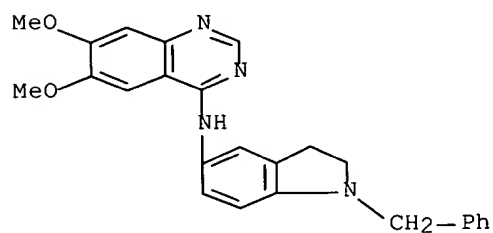
CN 4-Quinazolinamine, 6,7-dimethoxy-N-[1-(phenylmethyl)-1H-indol-5-yl]-  
(9CI)  
(CA INDEX NAME)



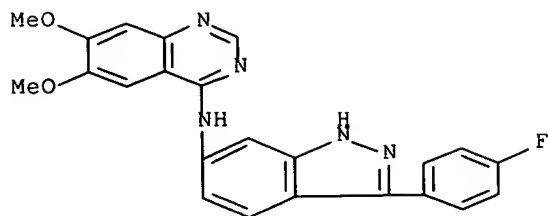
RN 187667-79-4 CAPLUS  
CN 4-Quinazolinamine, 6,7-dimethoxy-N-[2-(phenylmethyl)-1H-benzimidazol-5-yl]-  
(9CI) (CA INDEX NAME)



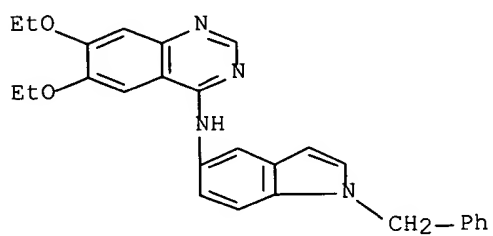
RN 187667-86-3 CAPLUS  
CN 4-Quinazolinamine, N-[2,3-dihydro-1-(phenylmethyl)-1H-indol-5-yl]-6,7-dimethoxy- (9CI) (CA INDEX NAME)



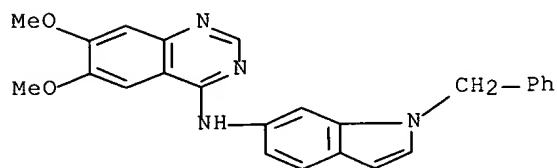
RN 187667-89-6 CAPLUS  
CN 4-Quinazolinamine, N-[3-(4-fluorophenyl)-1H-indazol-6-yl]-6,7-dimethoxy-  
(9CI) (CA INDEX NAME)



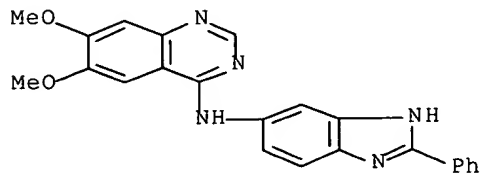
RN 187667-92-1 CAPLUS  
 CN 4-Quinazolinamine, 6,7-diethoxy-N-[1-(phenylmethyl)-1H-indol-5-yl]-  
 (9CI)  
 (CA INDEX NAME)



RN 187667-95-4 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-[1-(phenylmethyl)-1H-indol-6-yl]-  
 (9CI)  
 (CA INDEX NAME)



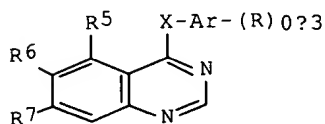
RN 187667-98-7 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-(2-phenyl-1H-benzimidazol-5-yl)-  
 (9CI)  
 (CA INDEX NAME)





ACCESSION NUMBER: 1995:780431 CAPLUS  
 DOCUMENT NUMBER: 123:160872  
 TITLE: Aryl and heteroaryl quinazoline compounds which inhibit CSF-1R receptor tyrosine kinase  
 INVENTOR(S): Myers, Michael R.; Spada, Alfred P.; Maguire, Martin P.; Persons, Paul E.; Zilberstein, Asher; Hsu, Chin-Yi  
 PATENT ASSIGNEE(S): Jenny; Johnson, Susan E.  
 SOURCE: Rhone-Poulenc Rorer Pharmaceuticals Inc., USA  
 PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9515758	A1	19950615	WO 1994-US14180	19941208
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ,				
VN RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5480883	A	19960102	US 1993-166199	19931210
US 5710158	A	19980120	US 1994-229886	19940419
AU 9513050	A1	19950627	AU 1995-13050	19941208
EP 871448	A1	19981021	EP 1995-904308	19941208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
US 5656643	A	19970812	US 1995-385258	19950208
US 5714493	A	19980203	US 1996-652444	19960604
PRIORITY APPLN. INFO.:			US 1993-166199	19931210
			US 1994-229886	19940419
			US 1991-698420	19910510
			US 1992-988515	19921210
			US 1993-146072	19931108
			WO 1994-US14180	19941208
OTHER SOURCE(S):			MARPAT 123:160872	
GI				



AB This invention relates to the modulation and/or inhibition of cell signaling, cell proliferation, cell **inflammatory** response, the control of abnormal cell growth and cell reprodn. More specifically, this

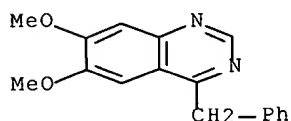
invention relates to the use of mono- and/or bicyclic aryl or heteroaryl quinazoline compds. (I; Ar = aryl or heteroaryl; X = O, S, SO, SO<sub>2</sub>, OCH<sub>2</sub>, NH, NR<sub>4</sub>, etc.; R = H, alkyl, aryl, alkenyl, OH, alkoxy, aralkoxy, aryloxy, halo, nitro, cyano, amino, amido, sulfonyl, halophenyl, benzoyl, etc.) in inhibiting cell proliferation, including compds. which are useful protein tyrosine kinase (PTK) inhibitors. The method of treating cell proliferation and/or differentiation or mediator release using said quinazoline compds. and their use in pharmaceutical compns. is described.

IT 37514-62-8 159737-62-9 167410-34-6  
 167410-48-2 167410-51-7 167410-52-8  
 167410-54-0 167410-55-1 167410-58-4  
 167410-59-5 167410-61-9 167410-65-3  
 167410-66-4 167410-67-5 167410-68-6  
 167410-69-7 167410-71-1 167410-72-2  
 167410-73-3 167410-74-4 167410-75-5  
 167410-76-6 167410-77-7 167410-78-8  
 167410-79-9 167410-80-2 167410-81-3  
 167410-82-4

RL: BAC (Biological activity or effector, except adverse); THU  
 (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (quinazoline compds. as inhibitors of CSF-1 receptors)

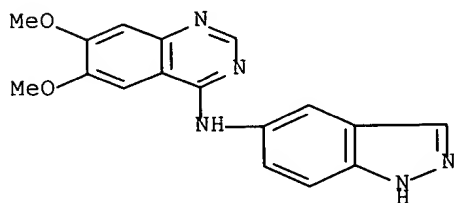
RN 37514-62-8 CAPLUS

CN Quinazoline, 6,7-dimethoxy-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 159737-62-9 CAPLUS

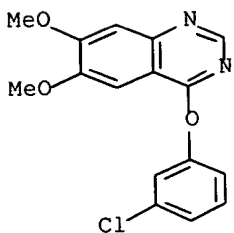
CN 4-Quinazolinamine, N-1H-indazol-5-yl-6,7-dimethoxy-, monohydrochloride  
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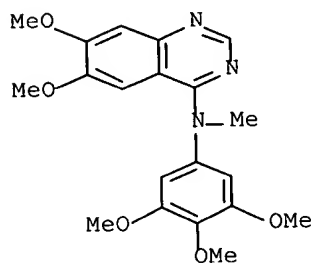
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RN 167410-34-6 CAPLUS

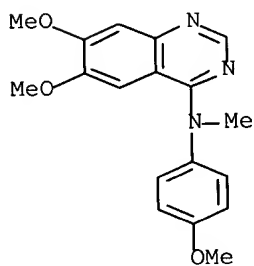
CN Quinazoline, 4-(3-chlorophenoxy)-6,7-dimethoxy- (9CI) (CA INDEX NAME)



RN 167410-48-2 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-(3,4,5-trimethoxyphenyl)-  
 (9CI) (CA INDEX NAME)

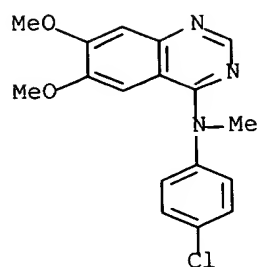


RN 167410-51-7 CAPLUS  
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 monohydrochloride (9CI) (CA INDEX NAME)



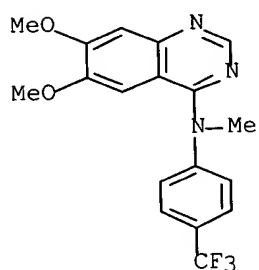
● HCl

RN 167410-52-8 CAPLUS  
 CN 4-Quinazolinamine, N-(4-chlorophenyl)-6,7-dimethoxy-N-methyl-,  
 monohydrochloride (9CI) (CA INDEX NAME)



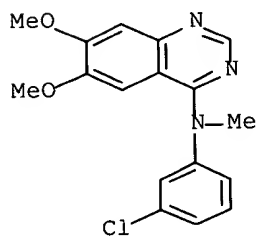
● HCl

RN 167410-54-0 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-[4-(trifluoromethyl)phenyl]-  
 ,  
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

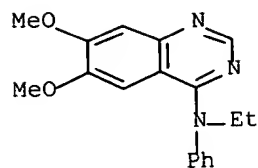
RN 167410-55-1 CAPLUS  
 CN 4-Quinazolinamine, N-(3-chlorophenyl)-6,7-dimethoxy-N-methyl-,  
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

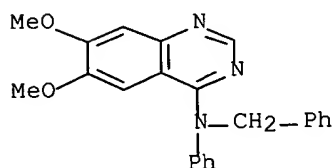
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(9CI) (CA INDEX NAME)



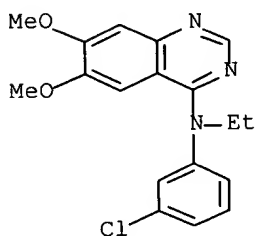
● HCl

RN 167410-59-5 CAPLUS  
CN 4-Quinazolinamine, 6,7-dimethoxy-N-phenyl-N-(phenylethyl)-,  
monohydrochloride (9CI) (CA INDEX NAME)



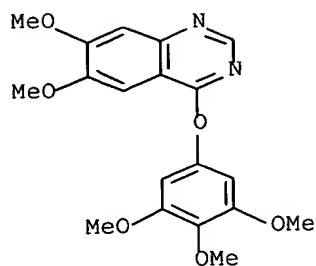
● HCl

RN 167410-61-9 CAPLUS  
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monohydrochloride (9CI) (CA INDEX NAME)

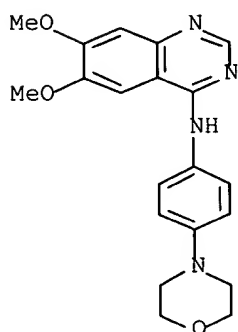


● HCl

RN 167410-65-3 CAPLUS  
CN Quinazoline, 6,7-dimethoxy-4-(3,4,5-trimethoxyphenoxy)- (9CI) (CA INDEX  
NAME)

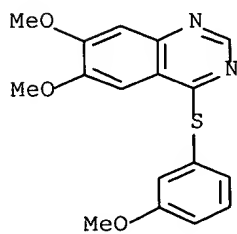


RN 167410-66-4 CAPLUS  
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 monohydrochloride (9CI) (CA INDEX NAME)

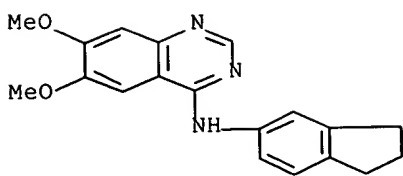


● HCl

RN 167410-67-5 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-[(3-methoxyphenyl)thio]- (9CI) (CA INDEX  
 NAME)

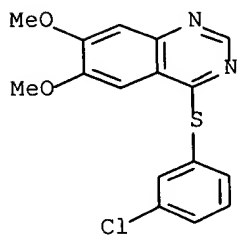


RN 167410-68-6 CAPLUS  
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 monohydrochloride (9CI) (CA INDEX NAME)

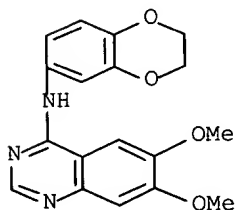


● HCl

RN 167410-69-7 CAPLUS  
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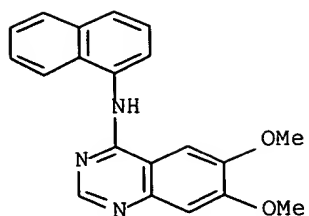


RN 167410-71-1 CAPLUS  
 CN 4-Quinazolinamine, N-(2,3-dihydro-1,4-benzodioxin-6-yl)-6,7-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)



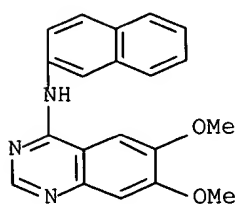
● HCl

RN 167410-72-2 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-1-naphthalenyl-, monohydrochloride (9CI) (CA INDEX NAME)



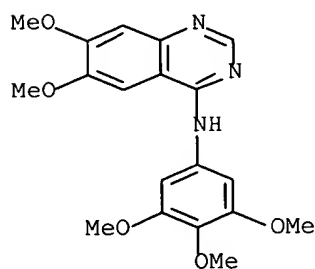
● HCl

RN 167410-73-3 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-2-naphthalenyl-, monohydrochloride  
 (9CI) (CA INDEX NAME)



● HCl

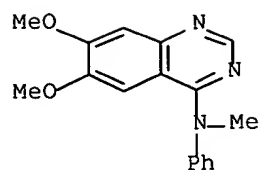
RN 167410-74-4 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-(3,4,5-trimethoxyphenyl)-,  
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

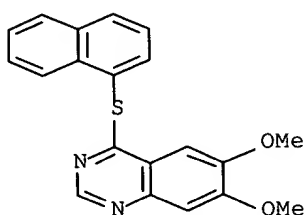
RN 167410-75-5 CAPLUS  
 CN 4-Quinazolinamine, 6,7-dimethoxy-N-methyl-N-phenyl-, monohydrochloride  
 (9CI) (CA INDEX NAME)



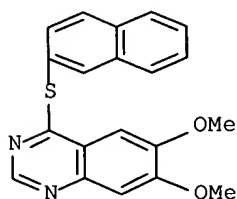


● HCl

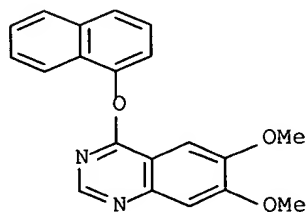
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 CN Quinazoline, 6,7-dimethoxy-4-(1-naphthalenylthio)- (9CI) (CA INDEX NAME)



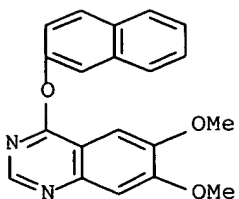
RN 167410-77-7 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenylthio)- (9CI) (CA INDEX NAME)



RN 167410-78-8 CAPLUS  
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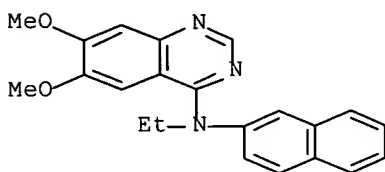


RN 167410-79-9 CAPLUS  
 CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenyloxy)- (9CI) (CA INDEX NAME)



RN 167410-80-2 CAPLUS

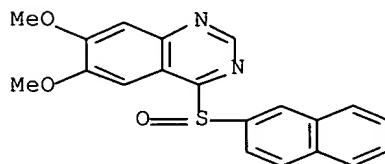
CN 4-Quinazolinamine, N-ethyl-6,7-dimethoxy-N-2-naphthalenyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

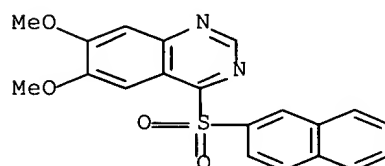
RN 167410-81-3 CAPLUS

CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenylsulfinyl)- (9CI) (CA INDEX  
NAME)



RN 167410-82-4 CAPLUS

CN Quinazoline, 6,7-dimethoxy-4-(2-naphthalenylsulfonyl)- (9CI) (CA INDEX  
NAME)



=> e prostaglandin/ct

E# FREQUENCY AT TERM

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E1          0      2      PROSTACYCLINS/CT
E2          0      2      PROSTACYCLINS PROSTAGLANDINS/CT
E3          0      1 --> PROSTAGLANDIN/CT
E4          0      6      PROSTAGLANDIN A1/CT
E5          0      6      PROSTAGLANDIN A2/CT
E6          0      2      PROSTAGLANDIN ANTAGONISTS/CT
E7          1      2      PROSTAGLANDIN B/CT
E8          0      2      PROSTAGLANDIN CYCLOOXYGENASE-INHIBITING MOL.
STRUCTURE
                                -BIOL. ACTIVITY RELATIONSHIP/CT
E9          0      2      PROSTAGLANDIN D RECEPTORS/CT
E10         0      15     PROSTAGLANDIN D2/CT
E11         0      2      PROSTAGLANDIN DP RECEPTORS/CT
E12        40      2      PROSTAGLANDIN E/CT

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=> d his

(FILE 'HOME' ENTERED AT 14:49:01 ON 23 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:49:11 ON 23 JAN 2002

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L1          STRUCTURE UPLOADED
L2          QUE L1
L3          4195 S L1 FUL

```

FILE 'CAPLUS' ENTERED AT 14:50:09 ON 23 JAN 2002

```

L4          1191046 S L
L5          269 S L3
            E UVB RADIATION
            E UVB RADIATION/CT
            E UVB
            E E3+ALL
            E UVB/CT
            E ULTRAVIOLET B RADIATION/CT
            E UVB LIGHT/CT
            E INFLAMMATION
            E E3+ALL
            E INFLAMMATION/CT
            E E3+ALL
L6          132520 S INFLAMMAT?
L7          15243 S EMPYEMA OR LAMINITIS OR CYCLOOXYGENASE
L8          143431 S L6 OR L7
            E PROSTALGLANDIN E2
            E PROSTALGLANDIN E2/CT
            E PROSTALGLANDIN/CT
            E PROSTAGLANDIN/CT
            E E12+ALL
L9          5238 S PROSTAGLANDIN E OR PROSTAGLANDINS (L) E
            E ULTRAVIOLET LIGHT
            E ULTRAVIOLET LIGHT/CT
            E E12+AA
            E E12+ALL
            E ULTRAVIOLET RADIATION/CT
            E E3+ALL
            E ULTRAVIOLET RADIATION B/CT
            E UV RADIATION B/CT
L10         43935 S ULTRAVIOLET RADIATION OR UV RADIATION

```

L11            11 S L5 AND L8  
 L12            2 S L5 AND L10  
 L13            11 S L5 AND L8  
 L14            0 S L5 AND L9  
 L15            0 S L11 AND L12  
 L16            13 S L11 OR L12  
               E PROSTAGLANDIN/CT

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
88.97	229.66

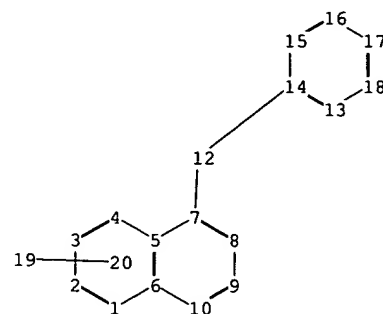
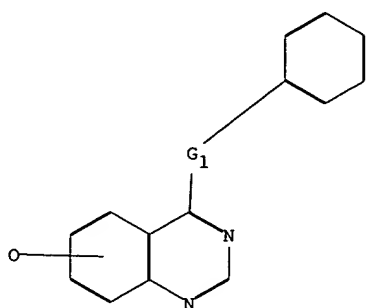
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-8.05	-8.05

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 15:09:38 ON 23 JAN 2002



chain nodes :

12 19

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18

chain bonds :

7-12 12-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-14 13-18  
14-15 15-16 16-17 17-18

exact/norm bonds :

7-12 12-14

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-14 13-18  
14-15 15-16 16-17 17-18

G1:C,O,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom  
19:CLASS 20:CLASS